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OM protein - protein search, using sw model

Run on: August 9, 2006, 16:22:32 ; Search time 51 Seconds
(without alignments)
1084.693 Million cell updates/sec

Title: US-09-881-736A-2

Perfect score: 3243

Sequence: 1 MDTMMLNVRNLFQELVRRVE.....SKSATNLGRQGNFFASPMLK 632

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /EMC Celerra_SIDS3/ptodata/2/iaa/5_COMB.pdp.*
- 2: /EMC Celerra_SIDS3/ptodata/2/iaa/6_COMB.pdp.*
- 3: /EMC Celerra_SIDS3/ptodata/2/iaa/7_COMB.pdp.*
- 4: /EMC Celerra_SIDS3/ptodata/2/iaa/H_COMB.pdp.*
- 5: /EMC Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pdp.*
- 6: /EMC Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pdp.*
- 7: /EMC Celerra_SIDS3/ptodata/2/iaa/backfiles1.pdp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3243	100.0	632	2	US-09-949-016-6844
2	1133	34.9	245	2	US-09-949-016-7193
3	301	9.3	1261	2	US-09-080-855-2
4	301	9.3	1261	2	US-09-566-076-2
5	282	8.7	838	2	US-09-949-016-9916
6	282	8.7	838	2	US-09-949-016-9917
7	281.5	8.7	1287	2	US-09-949-016-11527
8	278.5	8.6	1227	2	US-09-949-016-7008
9	270.5	8.3	2548	2	US-09-172-422-1
10	260.5	8.0	802	2	US-09-949-016-6235
11	257.5	7.9	185	5	PCT-US93-03076-10
12	255	7.9	589	2	US-10-094-749-1841
13	254.5	7.8	748	2	US-10-104-047-2336
14	254	7.8	750	2	US-09-949-016-11166
15	251	7.7	170	2	US-10-080-960-32
16	247	7.6	816	2	US-10-104-047-2328
17	238.5	7.4	761	2	US-09-949-016-8473
18	238.5	7.4	761	2	US-09-949-016-8474
19	238.5	7.4	761	2	US-09-949-016-8475
20	238.5	7.4	761	2	US-09-949-016-8476
21	237	7.3	601	2	US-09-949-016-8477
22	237	7.3	732	2	US-09-949-016-8478
23	237	7.3	732	2	US-09-949-016-8479
24	237	7.3	836	2	US-09-949-016-11057
25	237	7.3	836	2	US-09-949-016-11058
26	237	7.3	836	2	US-09-949-016-11059

ALIGNMENTS

RESULT 1

US-09-949-016-6844

; Sequence 6844, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 6844

; LENGTH: 632

; TYPE: PRT

; ORGANISM: Human

; US-09-949-016-6844

Query Match 100.0%; Score 3243; DB 2; Length 632;
Best Local Similarity 100.0%; Pred. No. 2e-298;
Matches 632; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDTMMLNVRNLFQELVRRVEILSEGNEVQFIOLAKDFEDFRKKWQRTDHELKGYKDLLMK 60

DB 1 MDTMMLNVRNLFQELVRRVEILSEGNEVQFIOLAKDFEDFRKKWQRTDHELKGYKDLLMK 60

QY 61 ATERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIOLIREMLMCDTSGSIQLSSE 120

DB 61 ATERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIOLIREMLMCDTSGSIQLSSE 120

QY 121 QKSALAFNLNRGQSSNAGNKLSTIDSGSILSDISFDKTDSDLDWSSLVKTKFKLKR 180

DB 121 QKSALAFNLNRGQSSNAGNKLSTIDSGSILSDISFDKTDSDLDWSSLVKTKFKLKR 180

QY 181 EKRRSTSRQFVDGPPGPKVKTRISGSAVDQGNESIVAKTIVTVPNDDGGPIEAVSTIETVP 240

DB 181 EKRRSTSRQFVDGPPGPKVKTRISGSAVDQGNESIVAKTIVTVPNDDGGPIEAVSTIETVP 240

QY 241 YWTRRRKTTGLQPNWSDTLNSRQLEPRTEFDSVGTTPQSGMRLHDFVSKTVIKPESC 300

DB 241 YWTRRRKTTGLQPNWSDTLNSRQLEPRTEFDSVGTTPQSGMRLHDFVSKTVIKPESC 300

QY 301 VPCGKRIKFKGLSKRCDCRVVSHPECDRCPLPCIPITLIGTPVKIGBGLADFVSQTSF 360
Db |||||
QY 301 VPCGKRIKFKGLSKRCDCRVVSHPECDRCPLPCIPITLIGTPVKIGBGLADFVSQTSF 360
Db |||||
QY 361 MIPSIIVHVCNIEQRLGTETGLYRISGCDRTVVKELKEKFLRVKTVPLLSKVVDDIHAICS 420
Db |||||
QY 361 MIPSIIVHVCNIEQRLGTETGLYRISGCDRTVVKELKEKFLRVKTVPLLSKVVDDIHAICS 420
Db |||||
QY 421 LKDFLRLNKEPLLTLRLNRAFMEAAETDENSTAAAMYQAVGELPOANRDTLAFMLHL 480
Db |||||
QY 421 LKDFLRLNKEPLLTLRLNRAFMEAAETDENSTAAAMYQAVGELPOANRDTLAFMLHL 480
Db |||||
QY 481 ORVAOSPHTKMDVANLAKVFGPTIVAHAVPNPDVPTMSODIKRQPKVVERLLSLPLEYWS 540
Db |||||
QY 481 ORVAOSPHTKMDVANLAKVFGPTIVAHAVPNPDVPTMSODIKRQPKVVERLLSLPLEYWS 540
Db |||||
QY 541 QFMVVEQENIDPLHVIENSNAFSTQTPDIKVSLLGPVTTPEHQLLTPSSSSLSQVRVS 600
Db |||||
QY 541 QFMVVEQENIDPLHVIENSNAFSTQTPDIKVSLLGPVTTPEHQLLTPSSSSLSQVRVS 600
Db |||||
QY 601 TLTKNTPRFGSKSKSATNLGRQGNFASPMK 632
Db |||||
QY 601 TLTKNTPRFGSKSKSATNLGRQGNFASPMK 632
Db |||||

RESULT 2

US-09-949-016-7193
; Sequence 7193, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7193
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7193

Query Match 34.9%; Score 1133; DB 2; Length 245;
Best Local Similarity 99.6%; Pred. No. 6.7e-99;
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 349 GMLADFVSQTSMPISIVVHCNIEQRLGTETGLYRISGCDRTVVKELKEKFLRVKTVPL 408
Db 23 GMLADFVSQTSMPISIVVHCNIEQRLGTETGLYRISGCDRTVVKELKEKFLRVKTVPL 82
QY 409 LSKVDDIHAICLLKDFLRLNKEPLLTLRLNRAFMEAAETDENSTAAAMYQAVGELPOA 468
Db 83 LSKVDDIHAICLLKDFLRLNKEPLLTLRLNRAFMEAAETDENSTAAAMYQAVGELPOA 142
QY 469 NRDTLAFMLHLQVQAQSPHTTMDVANLAKVFGPTIVAHAVPNPDVPTMSQDIKQPKV 528
Db 143 NRDTLAFMLHLQVQAQSPHTTMDVANLAKVFGPTIVAHAVPNPDVPTMSQDIKQPKV 202
QY 529 ERLLSLPLEYWSQFMVVEQENIDPLHVIENSNAFSTQTPDIK 571
Db 203 ERLLSLPLEYWSQFMVVEQENIDPLHVIENSNAFSTQTPDIK 245

RESULT 3

US-09-080-855-2

; Sequence 2, Application US/09080855A
; Patent No. 6083721
; GENERAL INFORMATION:
; APPLICANT: Saras, Jan
; APPLICANT: Franz, Petra
; APPLICANT: Aspenstrm, Pontus
; APPLICANT: Hellman, Ulf
; APPLICANT: Genez, Leonel Jorge
; APPLICANT: Helldin, Carl-Henrik
; TITLE OF INVENTION: PARG, A GTPASE ACTIVATING PROTEIN WHICH INTERACTS WITH PTPBL
; FILE REFERENCE: L0461/7030
; CURRENT APPLICATION NUMBER: US/09/080,855A
; CURRENT FILING DATE: 1998-05-18
; EARLIER APPLICATION NUMBER: 08/805,583
; EARLIER FILING DATE: 1997-02-25
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1261
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-080-855-2

Query Match 9.3%; Score 301; DB 2; Length 1261;
Best Local Similarity 22.4%; Pred. No. 9.4e-19;
Matches 153; Conservative 120; Mismatches 249; Indels 160; Gaps 33;
QY 9 RNLFEQLRVRRVEILSEGNEVQIQLAKDFEDFRKQWQRTDHE-LGKYKDLMLKAEATERSA 67
Db 372 RRLSEELAKQVE---EADLYKV-CVTNVEERRNDVENTKREILAQLRTLVFQCDLTLKA 427
QY 68 LDVKLKHARQVDEIIVRRQBAEADCEKLERQIQLIREMLMCDTSGSIQSLSEOK---SA 124
Db 428 VTVNLFTMOHLQAASLADRLQSLCGSAKLYDPGOEYSEFVKATNS-----TEEEKVDGNV 482
QY 125 LAFILNRGQPSNNAGNKRLLSTI---DESGSTLSIDISPKDTDESLDSSLVKTFKLKRE 181
Db 483 NKHLNSQPSGFGPANSLIEDVVRLPDSNKIEERCNSADIT---GPSFIRSTWFGMS 539
QY 182 KRRSTSRQFVDGPPGVKTRISIGSAVDQGNESIVAKTTVTVPNDGGPIEAVSTIETVPY 241
Db 540 DSEST-----GGSSSEKSLDS-----ESI-----SPGD----- 562
QY 242 WTRSRRTGTLPWNSDSTLNSRQLEPRTEF--DSVGTPOS---NGMRLHDFVSKTVIK 296
Db 563 FHRKLPRTPSSSGTWSADLDREPPSPSPSETGPNLSGTFFKTLMSKAALTKFP--RKLRS 620
QY 297 PESCVPGCKRIKFKGLSKRCDCRVVSHPECDRCPLPC---IP---TLIGTPVKIGEG 349
Db 621 PTKCRDCEGIVVF--QGVCECECLVCHRKCLNVLVICHQKLPKGKHLFG----- 670
QY 350 MLADF--VSQTSF-MIPSIIVHVCNIEQRLGTETGLYRISGCDRTVVKELKEKFLRVKTV 406
Db 671 --AEFTLVAKPEPGIPILKICASEIENRALCLQGIYRVCG-----NKIKTE 716
QY 407 PLLSKVD-----DI-----HAICSLKDFLRLNKEPLLTLRLNRAFMEAAE---ITDE 451
Db 717 KLCLALENGMLVDISEFSSHDI CDVLKLYLRQLPEPFIPLFRLYKEFIDLAKEIQHVNEE 776
QY 452 DNS-----IAAMYQAVGELPOANRDTLAFMLHLQVQA--QSPHTK 490
Db 777 QETKNLSLKKWPNMCIENRILKSKDLRLQRLPASNFNLSHLFLVHLKRVVDHAENK 836
QY 491 MDVANLAKVFGPTIVAHAVPNPD--PVTMSQ--DIKQPKVVERLLSLPLEYWSQFM--- 543
Db 837 MNSKNLGVIFGPSLIR---PRPQTAPITISSLAEYSNQARLVEFLIT-----YSQKIFDG 888
QY 544 -MVEQENIDPLHVIENS---NAFSTQTPDIKVSLLGPVTTPEHQLLTPSSSSLSQVRV 599
Db 889 SLPQDVMCSIGVVDQGCFFPKPLSPEDRTIERSMKSLFFSSKEDIHTSESESKIFERAT 948
QY 600 STLTKNTPRFGSKSKSATNLGR 621
| | | | |

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Db      949 S-----FEESERKQNALGK 962

RESULT 4
US-09-566-076-2
; Sequence 2, Application US/09566076
; Patent No. 6475775
; GENERAL INFORMATION:
; APPLICANT: Franz, Petra
; APPLICANT: Aspenstrm, Pontus
; APPLICANT: Hellman, Ulf
; APPLICANT: Genez, Leonel Jorge
; APPLICANT: Heldin, Carl-Henrik
; TITLE OF INVENTION: PARG, A GTPASE ACTIVATING PROTEIN WHICH INTERACTS WITH PTPL1
; FILE REFERENCE: L0461/7030
; CURRENT APPLICATION NUMBER: US/09/566,076
; CURRENT FILING DATE:
; EARLIER APPLICATION NUMBER: 09/080,855
; EARLIER FILING DATE: 1998-05-18
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1261
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-566-076-2

Query Match      9.3%; Score 301; DB 2; Length 1261;
Best Local Similarity 22.4%; Pred. No. 9.4e-19;
Matches 153; Conservative 120; Mismatches 249; Indels 160; Gaps 33;

QY      9 RNLPEQLVRRVEILSENEVOFTQLAKDPEDPRKKWQRTDHE--LGKVKDILLMKAETERSA 67
Db      372 RRLLEALQKVE---EADLIYKV--CVTNVEERNVDVENTKREILAQRILTIVFOCDLTAKA 427
QY      68 LDYKLKHARNQVDVEIKRRQRAEADCEKLERIQILIREMLMCDTSGSIQSEBQK---SA 124
Db      428 VTUNLFHQHQLAASLADRLQSLCGSAKLYDPQGEYSEFVKATNS-----TEBEKVDGNV 482
QY      125 LAFNLNQGSSNAGNKRLLSTI---DESGSILSDISFDKTDSDSLDWDSSLVTKTFKUKKRE 181
Db      483 NKHLNSSQPSGFGPANSLVDVRLPDSNNKIBEDRCSNSADIT---GPSFIRSWTFGMFS 539
QY      182 KRSTSRQFVDPGPPGVKTRSTGSAVDQGNESIVAKTTVTVPNDGGPIEAUSTIETVPY 241
Db      540 DSEST-----GGSSRSRLDS-----ESI-----SPGD----- 562
QY      242 WTRSRRTGTLPWNSDTILNSRLQLEPRTE--DSVGTPOS---NGCMRLHDFVSKTVIK 296
Db      563 FHRKLPRTSPSSGTMSSADDLDERPPSPSETGPNLSLGTFFKTLMSKAALTKP--RKLRS 620
QY      297 PESCVPGKRIKFGKLSLKCRDCRVVSHPECRDRCLPC-----IP---TLIGTPVKIGEG 349
Db      621 PTKCRDCEGIWPF--QGVCEBELLVCHRRKLENLVIICGHQKLPKGKHLFG----- 670
QY      350 MLADF--VSQTSF--MIPSIIVVHCNEIORGLTETGLYRISGCDRTVKELKEFLAVKTV 406
Db      671 --AEFTLVAKBPDGPIFILIKICASEIENRACLCQGIYVCG-----NKKITE 716
QY      407 PLLSKVD-----DI-----HAICSLIKDFLRLKEPLLTFRNLNRAFMEAAE---ITDE 451
Db      717 KLCIALENGHLVDISEFFSHDIDVLLKYLRLQLPPEPFIILFRLYKFIIDLAKELQHVNEE 776
QY      452 DNS-----IAAMYQAVGELPOANRDTLAPLMHQLORVA--QSPHTK 490
Db      777 QETKNSLEDKWPNNMCIEINRILLKSKOLLRLQPLPASNFNSHFLIVHLKRVVDHAEENK 836
QY      491 MDVANLAKVGPPTIVAHAVENPD--PVTMSQ---DIRKQPKVVERLLSLPLEYHSQFM--- 543
Db      837 MNSKNLGVIFGSLIR----PRPQTAPITISLAEYSNQARLVFLIT-----YSOKIFDG 888
QY      544 -MVEQENIDPLHVIENS--NAPSTPQTPDVKSLILGPVTTPEHQLLKTSPSSSLSQVR 599

Db      889 SLQPDVMCSIGVWDQCGCPKPLLSPEERDIERSMKSLFFSSKEDIHTSESESKIPERAT 948
QY      600 STLTKNTPRFGSKSKSATNLGR 621
Db      949 S-----FEESERKQNALGK 962

RESULT 5
US-09-949-016-9916
; Sequence 9916, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9916
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9916

Query Match      8.7%; Score 282; DB 2; Length 838;
Best Local Similarity 25.5%; Pred. No. 3e-17;
Matches 140; Conservative 67; Mismatches 201; Indels 140; Gaps 21;

QY      48 DHELKGYKOLLMKAETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERIQILIREML 107
Db      353 DHEL---EDMKMKISALKSEI-----QKEKANKGQSR--IERLKKM--PENEFL 396
QY      108 MCDTSGSIQSEBQSKALAFI---NRGPPSSNAGNKRLLSTIDESGSLSDISFKTDE 163
Db      397 LLINGPTIPFIRHNNGSKYLLFLLSDYERSEWREAIQKQKDLQAFVLSSELVQLTG 456
QY      164 SLDWSSLVTKFKLKKREKRSTSRQFVDPGPPGVKTRSIGSAVDQGNESIVAKTTTV 223
Db      457 S-----CPKLRVTVMNIPVTSNKKDDDESPLGYGLFHLVIVHSAKGFQSANLYCTLEV 507
QY      224 PNDGGPIEAUSTIETVPYTRSRRTK---GTLQP--WNS----- 257
Db      508 DSFG-----YFV--SKAKTRVFRDTPAEKWDSEFEIELESGSLSRLILCYEKCY 553
QY      258 DSTLNSR-----QLBPRT--ETDSVGTPOSNGMRHLHDFVSKTVIKESCV 301
Db      554 DTKVKNNKNEIVDKIMKGQIQLDPPQTVETKNWHT-----DVIEMNGIKVFESM 603
QY      302 PCGKRIFGKLSIKCEDCRVSHPECRDRCLPCITLIGTPVKIGEGMLADFVS---Q 357
Db      604 KFTSR---DMSLK-----RTPSKKQTGVGVKISVVTKR 634
QY      358 TSPMIPSIIVVHCNEIORGLTETGLYRISGCDRTVKELKEF--LRVKTVPLLSKVDDIH 416
Db      635 ERSKVPYIVRQCEVEEKEGIEVGIYRISGVATDIQALKAVFDANNKOLLMLSDMDIN 694
QY      417 AICSLIKDFLRLKEPLLTFRNLNRAFMEAAEITDEDNSIAAMYQAVGELPOANRDTLAF 476
Db      695 AIAGTLKLYFRELPEPLTDRLYPAFMEGIALSDPAAKENCMHLLRSLPDNPLITFEL 754
QY      477 MHLQORVAO--SPTKMDVANLAKVGPPTIV-----AHAVNPDPVMTSQDIKQPKV 527
Db      755 LEHLKRVAEKPEINKMSLNLATVFGPTLLRPSSEVESKAHLTSAAD--TWSHDVMVAQOV 812
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QY 528 VERLLSLP 535
Db 813 LLYLQHP 820

RESULT 6
US-09-949-016-9917
; Sequence 9917, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9917
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9917

Query Match 8.7%; Score 282; DB 2; Length 838;
Best Local Similarity 25.5%; Pred. No. 3e-17;
Matches 140; Conservative 67; Mismatches 201; Indels 140; Gaps 21;

QY 48 DHELKGYKDLLMKAETERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREML 107
Db 353 DHEL---EDMKKISALKSEI-----QEKANKQGSRA---IERLKKQM-PENEF 396

QY 108 MCDTSGSIQSEQKALAF-----NRGQPSNAGNKRLLSTIDSGSILSDISPKTDE 163
Db 397 LLNLSPTIPFRHNRNGSYLLSDYERSEWREAIQKQKDLQAFVLSSVELQVLTG 456

QY 164 SLDDSSLVKTKLKKREKRSTSQFVDPGPGPVKKTSGSAVDQGNESIVAKTTTV 223
Db 457 S-----CPKLRTHVNIPIVTSNKKDDDESPLGYFLHVIHSAKGFQKSANLYCTLEV 507

QY 224 PNDGGPIEAVSTIETVPYTRRRKT---GTLPQ-WNS----- 257
Db 508 DSFG-----YFV-SKATRVPRDTAEPKWDEEFIELEGSQLILCYEKY 553

QY 258 DSTLNSR-----QLSPRT-ETDSVGTPOSNGMRLHDFVSKTVIKPESCV 301
Db 554 DKTQVKNDDNEIVDKIMGKGQIQLPQTVETKNWHT-----DVIEMNGIKVFP 603

QY 302 PCGKRIKFKLSLKCRCDCRVSHPECDRCPLCPITLIGTPVKIGEGMLADFVS---Q 357
Db 604 KFTSR-----DMSLK-----RTPSKQQTGVFGKISVVTKR 634

QY 358 TSPMIPSIYVHCNTEIQRGLTETGLYRISGCDRTVVKELKEKF-LRVKTVPLLSKVDDIH 416
Db 635 ERSKVPYIVROCVIEERKGEIYRISGVATDIQALKAAFDVNNKDVMMSEMDVN 1138

QY 417 AICSLKDLFLNLKPELLTFLNRAFMEEAETIDEDNSIAAMYQAVGELPQANRDTLAF 476
Db 695 AIAGTLKLYFRELPEPLTDRLYPAFMEGIALSDPAKENCMHLLRSLPDPNLTFL 754

QY 477 MIHLQVQAQ-SPTKMDVANLAKVFGPTIV-----AHAVNPDPVTMSODIKRQKV 527
Db 755 LEHLKRVAEKEPINKKNSLHNLATVFGPTLLRPSVESKAHLTSAAD--IWSHDVMAQVQV 812

QY 528 VERLLSLP 535
Db 813 LLYLQHP 820
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RESULT 7
US-09-949-016-11527
; Sequence 11527, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11527
; LENGTH: 1287
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11527
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Query Match 8.7%; Score 281.5; DB 2; Length 1287;
Best Local Similarity 22.8%; Pred. No. 6.9e-17;
Matches 139; Conservative 93; Mismatches 211; Indels 167; Gaps 28;

QY 19 VEILSENEVQFIQIAKDF-----EDFRKKW-----QRTDHELKGYK 55
Db 732 VELVEGARKLRHVLFTDLLCTKLKQSGKTOQYDCKWYIPLTDLFSQMYD-ELEAVP 790

QY 56 DLLMKAETERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREMLCMTSGSI 115
Db 791 NIPLVPEELDALIKISQIKNDIQRE-KRANKSGKATERLKKKL----- 834

QY 116 QLSBEQKSAFLNRGQPSNAGNKRLLSTIDSGSILSDISFDKTDLSLWDSLSLVKTF 175
Db 835 ---SEQESLLLSLSPSMAFRVHRSNGKSYTF---LISSDY-----ERAEWRENI--- 877

QY 176 KLKREKRSTSRQFVDPGPGPVKKTSGSAVDQ--GNESIVAKTTTVTP-----NDG 227
Db 878 ---REQQKKCFRSF-----SLTSVELQMLTNSCVKLQTVHSHIPLTINKEDDE 921

QY 228 GP-----IEAVSTIETVPYW---TRSRRTGTLPQ-WNSDSTL- 261
Db 922 SPGLYGLFNLVHVSATGFKQSSNLYCTLEVDSFGYFNKAKTRVYRDTAEFNWNEEFIE 981

QY 262 ---NSRQLE-----PRTETDSVGTPOSNGMRL-----HDFVSKTVIKPES 299
Db 982 LEGSQTILRLCYEKYCNKTKIPKEDGESTDLRMKGQVQLDPQALQDRDM-QRTVIAMNG 1040

QY 300 CVPCKRIKFG--KLSLKRCDCRVSHPECDRCPLCPITLIGTPVKIGEGMLADFVSQ 357
Db 1041 -IEVLSYKFNRSRFSLSK-----RMPESRQQTGVFG--VKI-----AVVTKR 1078

QY 358 TSPMIPSIYVHCNTEIQRGLTETGLYRISGCDRTVVKELKEKF-LRVKTVPLLSKVDDIH 416
Db 1079 ERSKVPYIVROCVIEERKGEIYRISGVATDIQALKAAFDVNNKDVMMSEMDVN 1138

QY 417 AICSLKDLFLNLKPELLTFLNRAFMEEAETIDEDNSIAAMYQAVGELPQANRDTLAF 476
Db 1139 AIAGTLKLYFRELPEPLTDFYFNFAGIALSDPVAKESQMLNLLSLPEANLITFLFL 1198

QY 477 MIHLQVQAQSPH-TKMDVANLAKVFGPTIV-----AHAVNPDPVTM---SODIKRQ 524
Db 1199 LDHLKRVAEKBAVNNKSLHNLATVFGPTLLRPSKEKSLPANPSQPIITMTDSWSLEVMSQ 1258

QY 525 PKVVERLLSL 534
Db 525 PKVVERLLSL 534
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Db 1259 VQVLLYLQ 1268

RESULT 8

US-09-949-016-7008
; Sequence 7008, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7008
; LENGTH: 1227
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7008

Query Match 8.6%; Score 278.5; DB 2; Length 1227;

Best Local Similarity 23.5%; Pred. No. 1.2e-16;

Matches 138; Conservative 89; Mismatches 195; Indels 165; Gaps 28;

Qy 19 VEILSEGNEVQFIQAKDF-----EDPRKKW-----ORTDHELKGYK 55
Db 716 VELVEGARKUNHFLFTDLLLCTKLKQSGKTOYQCKWYIPLDLSFQWVD-ELEAVP 774
Qy 56 DLLMAETERSALDVKLHARNQVDVEIKRQRAEADCEKLEKQIQIIREMLMCDTSGSI 115
Db 775 NIPLVPBDELDAIKI-----SQIKSDIQREKANKGSKATER-----LKKKL----- 818
Qy 116 QLSQEOKSALAFNKGQPSNAGNKLSTIDESGSLSDISPKDTDESIDWSSLVKTF 175
Db 819 ---SEQESLLMLGSPMAFRVHSRNGSKSYTF-----LISSDY-----ERAEMRENI----- 861
Qy 176 KLKREKRSTSRQFVDPGPPGVKTRSIGSAVDQ---GNESIVAKTIVTVVP-----NDG 227
Db 862 -----REQQKCFRSF-----SLTSVELQMLTNSCVKLTQVHSIPLTIINKEDDE 905
Qy 228 GP-----IEAVSTIETVPYW-----TRSRKTKTLOP-WNSDSTLN 262
Db 906 SPGLYGLFNLVIVHSATGFKQSSNLYCTLEVDSPGCVFNKAKTRVYRDTAEPNWN----- 959
Qy 263 SRQLEPRTETSDVGTPOSGNGMLRHDVSKTVIKPESCVPGKRIKFG---KLSLKRCDCR 320
Db 960 --ELDPQALQD-----RDW-QRTVIAMNG-IEVKLSVKFNSREFSLK----- 997
Qy 321 VVSHPECDRCPLCIPILIGTPKIGEGMLADFVSQTSPIPSIVHVCNIEIQRGILTE 380
Db 998 -----RMPRSKQTVFG--VKI-----AVTKRERSKVPVIVRQCVEEIERRMGEE 1041
Qy 381 TGLYRISGCDRTVKELKEF--LRVKTVPLLSKVDIIHAISSLKDLFLRNKEPILLTFLRN 439
Db 1042 VGIYRVSGVATDQALKAAFDVNNKDVSVMSMDVNAIAGTLKLYFRELPEPLFTDEFY 1101
Qy 440 RAFMEAAEITDSDNSIAAMYQAVGELPQANRDTLAFMLHILQVQAQSPH-TKMDVANLAK 498
Db 1102 PNFAEGIALSDPVAKESCMILLLSLPEANLLTFLFLDLHLKRVAEKAVNKNLSHLNAT 1161
Qy 499 VFGTIV-----AHAVPNP-DPVTM-----SQDIKRPQKVVVERLISL 534
Db 1162 VFGPTLLRPSKESKLPANPSQPTITMTDSWSLEVMQVQLLYFLQL 1208

RESULT 9

US-09-172-422-1
; Sequence 1, Application US/09172422A
; Patent No. 6300485
; GENERAL INFORMATION:
; APPLICANT: Adams, Arwen E.
; APPLICANT: Chiu, Choi Ying
; APPLICANT: Duhl, David
; APPLICANT: Gorman, Susan W.
; APPLICANT: Leng, Song
; APPLICANT: Sheffield, Val
; APPLICANT: Welch, Juliet
; TITLE OF INVENTION: MYOSIN IXA AND CYCLIC NUCLEOTIDE GATED
; TITLE OF INVENTION: CHANNEL-15 (CNGC-15) POLYNUCLEOTIDES, POLYPEPTIDES,
; FILE REFERENCE: 200130.442
; CURRENT APPLICATION NUMBER: US/09/172,422A
; CURRENT FILING DATE: 1998-10-14
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 2548
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-172-422-1

Query Match 8.3%; Score 270.5; DB 2; Length 2548;

Best Local Similarity 24.4%; Pred. No. 2.4e-15;

Matches 130; Conservative 75; Mismatches 203; Indels 125; Gaps 24;

Qy 143 LSTIDBSGILSDISPKDTDESIDWSSLVKTFKLKREKRSTSRQFVDPGPPGVKTR 202
Db 1864 LKSMDE--ELLKKVN-DLDNEDSKKDTLVVDVVFKKALKEFRQN-----IFSFY 1908
Qy 203 SIGSAVDQGN-----ESIVAKTIVTVVPNDG---GPIEA-VSTIETVPVWTRSR 247
Db 1909 SSALAMDDGKSTRYKDYALFEQILEKTMRLQORDSLGSPVRVWVNTTKVFLDEYWN 1968
Qy 248 KTGTLPWNSSDTL-----NSRQLEPRTETSDVGTPOSGNGMLRHDVSKTVIKPESC 302
Db 1969 KT-----SDCTATKVPKTERKKRKETDLV--EEHNG-----HIFKATQVSIPT 2015
Qy 303 CGKRIKFGKLSUKRCDCRVVSHPECDRCPLCIPILIGTPVKIGE-----GMLADFV 355
Db 2016 CSSLIWMIDRASVCKLCKYACHKC-----CLKTTAKCSKKYDPELSSROFGVLSRL 2068
Qy 356 SQTSPMIPISIVHVCNIEIQRGILTEGLYRISGCDRTVKELKEFLRVKTVPLLSKVD 414
Db 2069 TSEDRTVPLVVEKLIINYIEMHGLYTEGIYKSGSTNKKIKELQK---GLDIDAESVNLDDY 2125
Qy 415 -HAISSLKDLFLRNKEPILLTFLRNAPMEAAEITDSDNSIAAMYQAVGELPQANRDTL 473
Db 2126 NIHVIASVFKQWLRLDLPNPLMTFELYEEFLRANGLOERKETIRGVYSVIDQLSRHLN 2185
Qy 474 AFLMIHLQVA-QSPHTKMDVANLAKVFGPTIVAHAVPNPDPVMTSODIKRQPKVVERLL 532
Db 2186 ERLIFHLVRIALQEDTNRSANALAIIVFAPCIL-RCPDITDPLQSQVDISKTTTCVE--- 2241
Qy 533 SLPLETWSQFMVVEQEN-----IDPLHVIENSNAFSTPQTPDILKVSLL----- 575
Db 2242 -----LIVVEQNNKYKARKLDISSLFEAENK-----AKTRLSLIRSMGKRI 2284
Qy 576 -----GPVTTPEHOLLKTPSSSSLSQRVSRSTLTNKTPTFRGSKSKSATNLGRQ 622
Db 2285 RRGNYFGP-SSP--VVVRLPSVSDVSE---EYLT-----SEAMETDITEQ 2324

RESULT 10

US-09-949-016-6235
; Sequence 6235, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

Db 135 EVQSE---SKNFNIVEPVLAFLHSLFISNSLTVELTDFLPYKQQL---QLSLQNRNHFSS 189
Qy 187 SRQVDPGPPGVKTRSIGSAVDOGNESIVAKTIVTPNDGGP-IEA-----VSTIE 237
Db 190 TREEMELKKRMKE-----APQCKLP--GQPTIEGYLTQEKWALGIS 231
Qy 238 TVPVWTSRRKTGTLQPNWSDSTLNSRQLPRTETDSVGPQSGMRLHDFVSKTVIKP 297
Db 232 WVKYCYQYETKTL-----TWPMEQRP-----GAKQPLDLTLKYCVR---KT 274
Qy 298 ESCVPCGKRIKFGKLSLKRCDCRVSHP-----ECRDRCP LPCI---PTLIGTPVK 345
Db 275 ES-----IDKRP-----CFDIETNERPGTITLQALSEANRRLWMEAMDGKEPIYHSPIT 323
Qy 346 IGEGLADFVSQTSPTMTPSVVHCVNEIORGLTETGLYRISGCDRTVVKELKEKFLRVK- 404
Db 324 KOEMELNEVG-----KVRKGINIETKIGKTEGLYRTVGSNTQVQKLLNAFFDPKC 377
Qy 405 --TVPLLSKVDIDHAICSLKDFLRLNKEPLTLFRLNRAFMEAEITDEDNSIAAMYQAV 462
Db 378 PGVDVFNDSWDIKTITSSLSKFLYRLNLSPEPMTYRLHKLVSAAKSDNLDYRLGAHSLV 437
Qy 463 GELPOANRDTLAFIMHILQVQSPHTK---MDVANLAKVFGPTIVAHAVNPDPVPTMSQ 519
Db 438 YKUPKREMLELLIRHLNVNCE--HSENLMTPSNMGVIFGPTLMR---AQEDTVAAMM 492
Qy 520 DIKQPKVVERLLSLPLEYWSQFM--VQENIDPL-----HVIENS 560
Db 493 NIKFQNIWVEIL-----IEHFGKIYLGPPESAAPPVPPRVATARRHKPITISKRLRERT 548
Qy 561 AFSTP-----QTPDIKV-SLLGPVTTPEHQL-----KTPSS----- 591
Db 549 VFYTSLSDESEDEIQHTPNGTITSSIEPPKPPQHPKLPQIRSGETDPGRKSPRPILDG 608
Qy 592 -----SSLSQVRSTLTNTNTPFGSKSATN 618
Db 609 KLEPCPEVDVGLVRLQDGGTKITPK-----ATN 638

RESULT 15
US-10-080-960-32
; Sequence 32, Application US/10080960
; Patent No. 6979564
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Gluckemann, Maria
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 80090, 52874, 52880, 63497, AND 33425
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF HUMAN
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; FILE REFERENCE: 38155-20044.00
; CURRENT APPLICATION NUMBER: US/10/080,960
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/242,040
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/242,038
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/241,992
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/242,637
; PRIOR FILING DATE: 2000-10-23
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid
US-10-080-960-32

Query Match 7.7%; Score 251; DB 2; Length 170;
Best Local Similarity 39.8%; Pred. No. 1.8e-15;

Matches 64; Conservative 27; Mismatches 52; Indels 18; Gaps 5;
Qy 363 PSIVVHCVNEIE-----QRLTETGLYRISGCDRTVVKELKEKFLRVKTVPLLSKVD--- 413
Db 1 PIIVEKCVYIEKLYPLAERGLQEEGIYRVSGASRVKELREAFDKDGAPDSLELSEKEM 60
Qy 414 -DIHAICSLKDFLRLNKEPLTLFRLNRAFMEAA--EITDEDNSIAAMYQAV-GELPOAN 469
Db 61 FDVHVVAGLLKLYLRELPEPLIPYDLYBEFIRAAKEQIEDPDERLALKELLSSKLIPRAH 120
Qy 470 RDTLAFIMHILQVQ-----SPHTKMDVANLAKVFGPTIV 505
Db 121 YNTLRYLLTHLNRAVEIYIENSANVKNMARNLAIVFGPTLL 161

Search completed: August 9, 2006, 16:23:32
Job time : 53 secs

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: August 9, 2006, 16:34:05 ; Search time 185 Seconds
(without alignments)
1582.442 Million cell updates/sec

Title: US-09-881-736A-2

Perfect score: 3243

Sequence: 1 MDTMMLNVRNLFEOLVRRVE.....SKSATNLGRQGNFFASPMLK 632

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:

- 1: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US07_PUBCOMB.pap.*
- 2: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US08_PUBCOMB.pap.*
- 3: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US09_PUBCOMB.pap.*
- 4: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US10A_PUBCOMB.pap.*
- 5: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US10B_PUBCOMB.pap.*
- 6: /EMC_Celerra_SIDS3/ptodata/2/pubppaa/US11_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3243	100.0	632	3	US-09-881-736-2
2	3237	99.8	632	5	US-10-287-436A-408
3	3237	99.8	632	5	US-10-287-436A-1106
4	3230	99.6	632	3	US-09-833-790-413
5	3230	99.6	632	5	US-10-756-149-5722
6	2919	90.0	570	3	US-09-833-790-427
7	2734	84.3	628	3	US-09-881-736-4
8	1182	36.4	255	4	US-10-408-765A-1045
9	864	26.6	625	6	US-11-097-143-30960
10	625	19.3	4318	5	US-10-450-763-45146
11	618	19.1	665	5	US-10-450-763-40589
12	618	19.1	1086	5	US-10-450-763-50263
13	618	19.1	1139	5	US-10-450-763-44317
14	541.5	16.7	384	6	US-09-881-736-6
15	477	14.7	384	3	US-11-097-143-4533
16	334	10.3	2022	4	US-10-408-765A-598
17	322	9.9	1775	4	US-10-072-012-878
18	322	9.9	175	4	US-10-072-012-879
19	310	9.6	1261	4	US-10-072-012-733
20	301	9.3	1261	4	US-10-177-980-2
21	301	9.3	1261	4	US-10-648-593-192
22	301	9.3	1261	6	US-11-072-175-192
23	294.5	9.1	193	3	US-09-802-127-8
24	294	9.1	295	4	US-10-205-194-95
25	294	9.1	1019	5	US-10-487-092-11
26	290.5	9.0	759	5	US-10-450-763-47152
27	290.5	9.0	800	5	US-10-450-763-47153

Sequence 185, App
Sequence 5188, Ap
Sequence 531, App
Sequence 333, App
Sequence 725, App
Sequence 212, App
Sequence 470, App
Sequence 19, Appl
Sequence 731, App
Sequence 729, App
Sequence 3502, Ap
Sequence 280, App
Sequence 278, App
Sequence 127, App
Sequence 42547, A
Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-09-881-736-2
; Sequence 2, Application US/09881736
; Patent No. US20020076785A1
; GENERAL INFORMATION:
; APPLICANT: Glotzer, Michael
; APPLICANT: Jantech-Plunger, Verena
; APPLICANT: Romano, Alper
; APPLICANT: Mishima, Masanori
; APPLICANT: Kaitna, Susanne
; TITLE OF INVENTION: Cyk-4 polypeptides, DNA molecules encoding them and their use in
; TITLE OF INVENTION: screening methods
; FILE REFERENCE: 0652.2260001/EKS/AES
; CURRENT APPLICATION NUMBER: US/09/881,736
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: EP 00 112 880.0
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: EP 01 110 554.1
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/241,231
; PRIOR FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: To be determined
; PRIOR FILING DATE: 2001-06-13
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; TYPE: PRT
; LENGTH: 632
; ORGANISM: Homo sapiens
US-09-881-736-2

Query Match 100.0%; Score 3243; DB 3; Length 632;
Best Local Similarity 100.0%; Pred. No. 3.1e-258;
Matches 632; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MDTMMNLNVRNLFEOLVRRVEILSEGNVEQFIQAKDFEDFRKKWQRTDHLGKYKOLLMK	60
Db	1	MDTMMNLNVRNLFEOLVRRVEILSEGNVEQFIQAKDFEDFRKKWQRTDHLGKYKOLLMK	60
Qy	61	AETERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQILIREMLMCDTSGSIQJSEE	120
Db	61	AETERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQILIREMLMCDTSGSIQJSEE	120
Qy	121	QKSALAFNLNRQPSNAGNKRSLSTIDSGSILSDISFDKTDSLDWSSLVTKFKLKR	180
Db	121	QKSALAFNLNRQPSNAGNKRSLSTIDSGSILSDISFDKTDSLDWSSLVTKFKLKR	180
Qy	181	EKRSTSRQFVDPGPGPVKKTSTRIGSADQGNESIVAKTTVTVPNDGPIEAVSTIETVP	240
Db	181	EKRSTSRQFVDPGPGPVKKTSTRIGSADQGNESIVAKTTVTVPNDGPIEAVSTIETVP	240

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QY 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
|
|
|
Db 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
|
|
|
QY 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCIPTLTGTPVKIGEGMLADFVSQTSP 360
|
|
|
Db 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCIPTLTGTPVKIGEGMLADFVSQTSP 360
|
|
|
QY 361 MIPSIIVHVCNBIHQGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
|
|
|
Db 361 MIPSIIVHVCNBIHQGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
|
|
|
QY 421 LKXDFLNLKEPLLTFRLNRAFEAAEITDEDNSIAAMYQAVGELPQANRDTLAFMIHL 480
|
|
|
Db 421 LKXDFLNLKEPLLTFRLNRAFEAAEITDEDNSIAAMYQAVGELPQANRDTLAFMIHL 480
|
|
|
QY 481 QRVASPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMSQDIKQPKVVERLLSLPLEYWS 540
|
|
|
Db 481 QRVASPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMSQDIKQPKVVERLLSLPLEYWS 540
|
|
|
QY 541 QFMVVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPTVTPHQLLKTSPSSSLSORVRS 600
|
|
|
Db 541 QFMVVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPTVTPHQLLKTSPSSSLSORVRS 600
|
|
|
QY 601 TLTNTNTPRFGSKSATNLGRQGNFFASPMK 632
|
|
|
Db 601 TLTNTNTPRFGSKSATNLGRQGNFFASPMK 632
|
|
|
RESULT 2
US-10-287-436A-408
; Sequence 408, Application US/10287436A
; Publication No. US2005020421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 408
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-408

Query Match 99.8%; Score 3237; DB 5; Length 632;
Best Local Similarity 99.8%; Pred. No. 9.6e-258;
Matches 631; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDTMMLNVLNFEQLVRRVEILSEGEVQFIQLAKDFEDFRKKWQRTDHELKGYKOLLMK 60
|
|
|
Db 1 MDTMMLNVLNFEQLVRRVEILSEGEVQFIQLAKDFEDFRKKWQRTDHELKGYKOLLMK 60
|
|
|
QY 61 AETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 120
|
|
|
Db 61 AETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 120
|
|
|
QY 121 QKSALAFNLNGQPSNAGNKNRLSTIDESGSLSDISFDKTDLSLWDSLVKTFKLKKR 180
|
|
|
Db 121 QKSALAFNLNGQPSNAGNKNRLSTIDESGSLSDISFDKTDLSLWDSLVKTFKLKKR 180
|
|
|
QY 181 EKRSTSRQFVDPGPPGVKTRTSGSAVDQGNESIVAKTTVTPNDGGPIEAVSTIETVP 240
|
|
|
Db 181 EKRSTSRQFVDPGPPGVKTRTSGSAVDQGNESIVAKTTVTPNDGGPIEAVSTIETVP 240
|
|
|
QY 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
|
|
|
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Db 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
QY 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCIPTLTGTPVKIGEGMLADFVSQTSP 360
|
|
|
Db 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCIPTLTGTPVKIGEGMLADFVSQTSP 360
|
|
|
QY 361 MIPSIIVHVCNBIHQGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
|
|
|
Db 361 MIPSIIVHVCNBIHQGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
|
|
|
QY 421 LKXDFLNLKEPLLTFRLNRAFEAAEITDEDNSIAAMYQAVGELPQANRDTLAFMIHL 480
|
|
|
Db 421 LKXDFLNLKEPLLTFRLNRAFEAAEITDEDNSIAAMYQAVGELPQANRDTLAFMIHL 480
|
|
|
QY 481 QRVASPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMSQDIKQPKVVERLLSLPLEYWS 540
|
|
|
Db 481 QRVASPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMSQDIKQPKVVERLLSLPLEYWS 540
|
|
|
QY 541 QFMVVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPTVTPHQLLKTSPSSSLSORVRS 600
|
|
|
Db 541 QFMVVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPTVTPHQLLKTSPSSSLSORVRS 600
|
|
|
QY 601 TLTNTNTPRFGSKSATNLGRQGNFFASPMK 632
|
|
|
Db 601 TLTNTNTPRFGSKSATNLGRQGNFFASPMK 632
|
|
|
RESULT 3
US-10-287-436A-1106
; Sequence 1106, Application US/10287436A
; Publication No. US2005020421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1106
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-1106

Query Match 99.8%; Score 3237; DB 5; Length 632;
Best Local Similarity 99.8%; Pred. No. 9.6e-258;
Matches 631; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDTMMLNVLNFEQLVRRVEILSEGEVQFIQLAKDFEDFRKKWQRTDHELKGYKOLLMK 60
|
|
|
Db 1 MDTMMLNVLNFEQLVRRVEILSEGEVQFIQLAKDFEDFRKKWQRTDHELKGYKOLLMK 60
|
|
|
QY 61 AETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 120
|
|
|
Db 61 AETERSALDVKLKHARNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 120
|
|
|
QY 121 QKSALAFNLNGQPSNAGNKNRLSTIDESGSLSDISFDKTDLSLWDSLVKTFKLKKR 180
|
|
|
Db 121 QKSALAFNLNGQPSNAGNKNRLSTIDESGSLSDISFDKTDLSLWDSLVKTFKLKKR 180
|
|
|
QY 181 EKRSTSRQFVDPGPPGVKTRTSGSAVDQGNESIVAKTTVTPNDGGPIEAVSTIETVP 240
|
|
|
Db 181 EKRSTSRQFVDPGPPGVKTRTSGSAVDQGNESIVAKTTVTPNDGGPIEAVSTIETVP 240
|
|
|
QY 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
|
|
|
Db 241 YWTRSRKKTGTLQPNWSDSTLNSRQLEPRTESTDVGTPOSGMRLHDFVSKTVIKPESC 300
|
|
|
QY 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCIPTLTGTPVKIGEGMLADFVSQTSP 360
|
|
|
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Db 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCITPLTIGTPVKIGEGMLADFVSQTS 360
Qy 361 MIPSIVVHCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
Db 361 MIPSIVVHCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
Qy 421 LKDFLRNLKEPLLTFRNLRAFMEAAEITDBDINSIAAMYQAVGELPOANRDITLAFMIHL 480
Db 421 LKDFLRNLKEPLLTFRNLRAFMEAAEITDBDINSIAAMYQAVGELPOANRDITLAFMIHL 480
Qy 481 ORVAQSPHTKMDVANLAKVFGPTTVAHAVPNPDVTHMSODIKROPKVVERLLSLPLEYWS 540
Db 481 ORVAQSPHTKMDVANLAKVFGPTTVAHAVPNPDVTHMSODIKROPKVVERLLSLPLEYWS 540
Qy 541 QFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLGPGVTTPEHQLLKTTPSSSSLSQVRVS 600
Db 541 QFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLGPGVTTPEHQLLKTTPSSSSLSQVRVS 600
Qy 601 TLTKNTPRFGSKSATNLGRQGNFFASPMK 632
Db 601 TLTKNTPRFGSKSATNLGRQGNFFASPMK 632
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RESULT 4

```
US-09-833-790-413
; Sequence 413, Application US/09833790
; Patent No. US20020068288A1
; GENERAL INFORMATION:
; APPLICANT: Lodes, Michael J.
; APPLICANT: Wang, Tongtong
; APPLICANT: Secretist, Heather
; APPLICANT: Mohamath, Raodoh
; APPLICANT: Indirias, Carol Y.
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.512
; CURRENT APPLICATION NUMBER: US/09/833,790
; CURRENT FILING DATE: 2001-04-11
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 413
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-790-413
```

```
Query Match 99.6%; Score 3230; DB 3; Length 632;
Best Local Similarity 99.7%; Pred. No. 3.6e-257;
Matches 630; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDTMMLNVRNLFEOQLVRRVEILSEGNEVQFIQLAKDPEDFRKKWQRTDHELKGYKDLIMK 60
Db 1 MDTMMLNVRNLFEOQLVRRVEILSEGNEVQFIQLAKDPEDFRKKWQRTDHELKGYKDLIMK 60

Qy 61 AETERSALDVKLKHARNQDVVEIKRQRAEADCEKLEQIOLIREMLMCDTSGSIQJSEE 120
Db 61 AETERSALDVKLKHARNQDVVEIKRQRAEADCEKLEQIOLIREMLMCDTSGSIQJSEE 120

Qy 121 QKSALAFNLRGQSSSNAGNKRSLTIDSGSILSDISFDKTDSDSLDWDSSLVKTFKLKCR 180
Db 121 QKSALAFNLRGQSSSNAGNKRSLTIDSGSILSDISFDKTDSDSLDWDSSLVKTFKLKCR 180

Qy 181 EKRRSTSRQFVDPGPPGVKKTRSIGSAVDQGNESIVAKTTVPNDGPGIEAVSTIETVP 240
Db 181 EKRRSTSRQFVDPGPPGVKKTRSIGSAVDQGNESIVAKTTVPNDGPGIEAVSTIETVP 240

Qy 241 YWTRSRRTGTLOPWNSTLNSRQLEPRTETSDVGTQPSNGMRLHDFVSKTVIKPESC 300
Db 241 YWTRSRRTGTLOPWNSTLNSRQLEPRTETSDVGTQPSNGMRLHDFVSKTVIKPESC 300

Qy 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCITPLTIGTPVKIGEGMLADFVSQTS 360
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Db 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCITPLTIGTPVKIGEGMLADFVSQTS 360
Qy 361 MIPSIVVHCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
Db 361 MIPSIVVHCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
Qy 421 LKDFLRNLKEPLLTFRNLRAFMEAAEITDBDINSIAAMYQAVGELPOANRDITLAFMIHL 480
Db 421 LKDFLRNLKEPLLTFRNLRAFMEAAEITDBDINSIAAMYQAVGELPOANRDITLAFMIHL 480
Qy 481 ORVAQSPHTKMDVANLAKVFGPTTVAHAVPNPDVTHMSODIKROPKVVERLLSLPLEYWS 540
Db 481 ORVAQSPHTKMDVANLAKVFGPTTVAHAVPNPDVTHMSODIKROPKVVERLLSLPLEYWS 540
Qy 541 QFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLGPGVTTPEHQLLKTTPSSSSLSQVRVS 600
Db 541 QFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLGPGVTTPEHQLLKTTPSSSSLSQVRVS 600
Qy 601 TLTKNTPRFGSKSATNLGRQGNFFASPMK 632
Db 601 TLTKNTPRFGSKSATNLGRQGNFFASPMK 632
```

RESULT 5

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US-10-756-149-5722
; Sequence 5722, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5722
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-756-149-5722
```

```
Query Match 99.6%; Score 3230; DB 5; Length 632;
Best Local Similarity 99.7%; Pred. No. 3.6e-257;
Matches 630; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDTMMLNVRNLFEOQLVRRVEILSEGNEVQFIQLAKDPEDFRKKWQRTDHELKGYKDLIMK 60
Db 1 MDTMMLNVRNLFEOQLVRRVEILSEGNEVQFIQLAKDPEDFRKKWQRTDHELKGYKDLIMK 60

Qy 61 AETERSALDVKLKHARNQDVVEIKRQRAEADCEKLEQIOLIREMLMCDTSGSIQJSEE 120
Db 61 AETERSALDVKLKHARNQDVVEIKRQRAEADCEKLEQIOLIREMLMCDTSGSIQJSEE 120

Qy 121 QKSALAFNLRGQSSSNAGNKRSLTIDSGSILSDISFDKTDSDSLDWDSSLVKTFKLKCR 180
Db 121 QKSALAFNLRGQSSSNAGNKRSLTIDSGSILSDISFDKTDSDSLDWDSSLVKTFKLKCR 180

Qy 181 EKRRSTSRQFVDPGPPGVKKTRSIGSAVDQGNESIVAKTTVPNDGPGIEAVSTIETVP 240
Db 181 EKRRSTSRQFVDPGPPGVKKTRSIGSAVDQGNESIVAKTTVPNDGPGIEAVSTIETVP 240

Qy 241 YWTRSRRTGTLOPWNSTLNSRQLEPRTETSDVGTQPSNGMRLHDFVSKTVIKPESC 300
Db 241 YWTRSRRTGTLOPWNSTLNSRQLEPRTETSDVGTQPSNGMRLHDFVSKTVIKPESC 300

Qy 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCITPLTIGTPVKIGEGMLADFVSQTS 360
Db 301 VPCGKRIKFGKLSLKCRDCRVVSHPECDRCPLPCITPLTIGTPVKIGEGMLADFVSQTS 360

Qy 361 MIPSIVVHCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
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Db 361 MIESIVHCVNEIEQRLTETGYRISGCCRTVKELKEFLRVKTVPLLSKVDDIHAICS 420
Qy 421 LKDFLRLNKEPLLTFRLNRAFMEEAAEITDSDNSIAAMYQAVGELPQANRDTLAFMLHL 480
Db 421 LKDFLRLNKEPLLTFRLNRAFMEEAAEITDSDNSIAAMYQAVGELPQANRDTLAFMLHL 480
Qy 481 ORVAQSPHTKMDVANLAKVFGPTTIVAHAVNPDPVVTMSQDIKQPKVVERLLSLPLEYWS 540
Db 481 ORVAQSPHTKMDVANLAKVFGPTTIVAHAVNPDPVVTMLQDIKQPKVVERLLSLPLEYWS 540
Qy 541 QFMVQENIDPLHVIENSNAFSTPQTPDIKVSLLGVPVTPPEHQLLKTTPSSSSLSORVRS 600
Db 541 QFMVQENIDPLHVIENSNAFSTPQTPDIKVSLLGVPVTPPEHQLLKTTPSSSSLSORVRS 600
Qy 601 TLTNTPRFGSKSATNLGRQGNFFASPMK 632
Db 601 TLTNTPRFGSKSATNLGRQGNFFASPMK 632
RESULT 6
US-09-833-790-427
; Sequence 427, Application US/09833790
; Patent No. US20020068288A1
; GENERAL INFORMATION:
; APPLICANT: Lodes, Michael J.
; APPLICANT: Wang, Tongtong
; APPLICANT: Secrist, Heather
; APPLICANT: Mohamath, Raodoh
; APPLICANT: Indirias, Carol Y.
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE OF INVENTION: 210121.512
; CURRENT APPLICATION NUMBER: US/09/833,790
; CURRENT FILING DATE: 2001-04-11
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 427
; LENGTH: 570
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-790-427

Query Match 90.0%; Score 2919; DB 3; Length 570;
Best Local Similarity 99.8%; Pred. No. 1.4e-231;
Matches 569; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 63 TERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREMLMCDTSGSIQLEEQK 122
Db 1 TERSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREMLMCDTSGSIQLEEQK 60
Qy 123 SALAFLNRGQPSSSNAGNKKLSTIDSGSILSDISFDKTDDESIDWDSLSLVKTKPKKKREK 182
Db 61 SALAFLNRGQPSSSNAGNKKLSTIDSGSILSDISFDKTDDESIDWDSLSLVKTKPKKKREK 120
Qy 183 RRSTSRQFVDPGPPGVKTKRSIGSAVDQGNESIVAKTTVTPVNDGGPIEAVSTIETVPYW 242
Db 121 RRSTSRQFVDPGPPGVKTKRSIGSAVDQGNESIVAKTTVTPVNDGGPIEAVSTIETVPYW 180
Qy 243 TRSRRTGTGLQPNWSDTLNSRQLEPRTESTDVGTQSGNGMRLHDFVSKTVIKPESCVP 302
Db 181 TRSRRTGTGLQPNWSDTLNSRQLEPRTESTDVGTQSGNGMRLHDFVSKTVIKPESCVP 240
Qy 303 CGKRIKFGKLSLKCRCRVVSHPECRDRCPLCPTLTIGTPVKIGEGMLADFVSQTSMPMI 362
Db 241 CGKRIKFGKLSLKCRCRVVSHPECRDRCPLCPTLTIGTPVKIGEGMLADFVSQTSMPMI 300
Qy 363 PSIVHVCVNEIEQRLTETGYRISGCDRTVKELKEFLRVKTVPLLSKVDDIHAICSLL 422
Db 301 PSIVHVCVNEIEQRLTETGYRISGCDRTVKELKEFLRVKTVPLLSKVDDIHAICSLL 360
Qy 423 KDFLRLNKEPLLTFRLNRAFMEEAAEITDSDNSIAAMYQAVGELPQANRDTLAFMLHLQR 482

Db 361 KDFLRLNKEPLLTFRLNRAFMEEAAEITDSDNSIAAMYQAVGELPQANRDTLAFMLHLQR 420
Qy 483 VAQSPHTKMDVANLAKVFGPTTIVAHAVNPDPVVTMSQDIKQPKVVERLLSLPLEYWSQF 542
Db 421 VAQSPHTKMDVANLAKVFGPTTIVAHAVNPDPVVTMLQDIKQPKVVERLLSLPLEYWSQF 480
Qy 543 MMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGVPVTPPEHQLLKTTPSSSSLSORVSTL 602
Db 481 MMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGVPVTPPEHQLLKTTPSSSSLSORVSTL 540
Qy 603 TKNTPRFGSKSATNLGRQGNFFASPMK 632
Db 541 TKNTPRFGSKSATNLGRQGNFFASPMK 570
RESULT 7
US-09-881-736-4
; Sequence 4, Application US/09881736
; Patent No. US20020076785A1
; GENERAL INFORMATION:
; APPLICANT: Glotzer, Michael
; APPLICANT: Jantsch-Plunger, Verena
; APPLICANT: Romano, Alper
; APPLICANT: Mishima, Masanori
; APPLICANT: Kaitana, Susanne
; TITLE OF INVENTION: Cyk-4 polypeptides, DNA molecules encoding them and their use in
; FILE OF INVENTION: screening methods
; FILE REFERENCE: 0652.2260001/EKS/AES
; CURRENT APPLICATION NUMBER: US/09/881,736
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: EP 00 112 880.0
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: EP 01 110 554.1
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/241,231
; PRIOR FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: To be determined
; PRIOR FILING DATE: 2001-06-13
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 628
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-881-736-4

Query Match 84.3%; Score 2734; DB 3; Length 628;
Best Local Similarity 84.4%; Pred. No. 3e-216;
Matches 534; Conservative 47; Mismatches 46; Indels 6; Gaps 3;
Qy 1 MDTMNLVRNLFQELVRRVEILSEGNE-VQFIQLAKDPEDFRKKWQRTDHELGKYKDLML 59
Db 1 MDTMNLVTLFQELVRRMEIINEGNESTIEFIQVVKDPEDFRKKYQRTNQELEKFKDLLL 60
Qy 60 KAETRSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 119
Db 61 KAETRSALDVKLKHARNQVDVEIKRQRAEADCEKLERQIQLIREMLMCDTSGSIQLE 120
Qy 120 EOKSALAFNRQPSNAGNKKLSTIDSGSILSDISFDKTDDESIDWDSLSLVKTKPKKK 179
Db 121 EOKSALAFNRQPSNAGNKKLSTIDSGSILSDISFDKTDDESIDWDSLSLVKTKPKKK 180
Qy 180 REKRSTSRQFVDPGPPGVKTKRSIGSAVDQGNESIVAKTTVTPVNDGGPIEAVSTIETV 239
Db 181 REKRSTSRQFVDPGPPGVKTKRSIGSTVDQANESIVAKTTVTPSDGGPIEAVSTIETL 240
Qy 240 PWTSRRTGTGLQPNWSDTLNSRQLEPRTESTDVGTQSGNGMRLHDFVSKTVIKPES 299
Db 241 PWTSRSGKSGPLQPNWSDSALNSRPLEPRTDNLGTQNTGGMRLHDFVSKTVIKPES 300
Qy 300 CVPCKRIKFGKLSLKCRCRVVSHPECRDRCPLCPTLTIGTPVKIGEGMLADFVSQTS 359

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Db 301 CVPCKRIKFGKSLKDCRLVSHVPECDRCPLFCIPPLVGTVPVKIGEGMLADFVSQAS 360
QY 360 PMPIGVHVCNVEIQRGLTGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAIC 419
Db 361 PMPIAVVSCNVEIQRGLTGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAIC 420
QY 420 SLLKDFLNLKEPLLTFFLNRAFMFAAIBITDSDNSIAAMYQAVGELPOANRDTTLAFMIH 479
Db 421 SLLKDFLNLKEPLLTFFLNRAFMFAAIBITDSDNSIAAMYQAVGELPOANRDTTLAFMIH 480
QY 480 LQVVAQSPHTKMDVANLAKVPGPTTVAHAVNPDPVMTSQDIKQPKVVERLLSLPLEYW 539
Db 481 LQVVAQSPHTKMDVANLAKVPGPTTVAHAVNPDPVMTSQDIKQPKVVERLLSLPLEYW 540
QY 540 SQFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLLGPTVTPPEHQLLKTSPSSSSLSQVR 599
Db 541 NOFMVVDQENIDS---QRGNGNSTPRTDPVKVSLLGPTVTPPEHQLLKTSPSSSSLSQRLY 596
QY 600 STLTKNTPRFGSKSATNLGRQGNFFPASPMLK 632
Db 597 N-LSKSTPRFGNKSATNLGQGGKFFPAPYLK 628

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RESULT 8

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US-10-408-765A-1045
; Sequence 1045, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Bojin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1045
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1045

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Query Match 36.4%; Score 1182; DB 4; Length 255;
Best Local Similarity 99.2%; Pred. No. 8.4e-89;
Matches 234; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 397 KEKFLRVKTVPLLSKVDDIHAICSLKDFLNLKEPLLTFFLNRAFMFAAIBITDSDNSIA 456
Db 20 KLEFLRVKTVPLLSKVDDIHAICSLKDFLNLKEPLLTFFLNRAFMFAAIBITDSDNSIA 79
QY 457 AMYQAVGELPOANRDTTLAFMIHLQVVAQSPHTKMDVANLAKVPGPTTVAHAVNPDPVT 516
Db 80 AMYQAVGELPOANRDTTLAFMIHLQVVAQSPHTKMDVANLAKVPGPTTVAHAVNPDPVT 139
QY 517 MSQDIKQPKVVERLLSLPLEYWQFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLLG 576
Db 140 MQDIKQPKVVERLLSLPLEYWQFMVVEQENIDPLHVIENSNAFSTPQTDIKVSLLG 199
QY 577 PVTTPPEHQLLKTSPSSSSLSQVRSTLTNTNTPRFGSKSATNLGRQGNFFPASPMLK 632
Db 200 PVTTPPEHQLLKTSPSSSSLSQVRSTLTNTNTPRFGSKSATNLGRQGNFFPASPMLK 255

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RESULT 9

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US-11-097-143-30960
; Sequence 30960, Application US/11097143
; Publication No. US20050208558A1

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; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 1999-10-05
; PRIOR FILING DATE: 1999-10-19
; PRIOR FILING DATE: 1999-10-19
; PRIOR FILING DATE: 1999-10-28
; PRIOR FILING DATE: 1999-11-12
; PRIOR FILING DATE: 1999-12-28
; PRIOR FILING DATE: 2000-01-12
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30960
; LENGTH: 625
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-30960

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Query Match 26.6%; Score 864; DB 6; Length 625;
Best Local Similarity 35.1%; Pred. No. 5.9e-62;
Matches 228; Conservative 110; Mismatches 225; Indels 86; Gaps 21;

QY 4 MMLNVRNLFQQLVRRVEILSEGN-EVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMKA 62
Db 1 MALSALASFDLLRCMQVLTDTGTPPEEFRLFAMFEQYHEKACAGYAAETARIQNELDKSL 60
QY 63 TERSALDVKLKHARNQVDVEIKRQRAADCEKLEKRLQILIREMLMCDTSGSLSQSEK 122
Db 61 TKMGDLEGKLFHARRIIDMEIKARQAEHERDAMESKIMAVADLLRHERN---LNNETR 116
QY 123 SALAFNLRGOPSSS---NA--GNKELSTIDSSGSLSDISFDKT--DESLDWDSSLVKT 174
Db 117 DKLAFLLHT-LPSSRRKXSLNAVREDKSYGDNSTGSLLSLSTHSEDDFLD-----VRT 170
QY 175 FKLKKRKRSTSRQFV-----DGPPGPKVKKTR--SIGSAVD----- 209
Db 171 SK-SWREHRSLPKNQIPSVGNKXSLSTGLNGSMSTTTTGTGSRSSVGIQVGHQTV 229
QY 210 --QGNESIVAKTTVTVNDG-GPIEAVSTIETVYVTRSRKKTGTLQPMNSDSTLNSQL 266
Db 230 VQQAERFCATTKVTTPDQGGVIRAEFTIESLPVIAGNERIGDGLSSTPRSSVLKEATA 289
QY 267 EPTETDSV-----GTP-QSNGGNRLHDFVSKTVIKPESCVPCGKRIKFGKLSLKR 317
Db 290 PPLTPVNAMAPHVABSGTFLQHRPLNRHNTFSQKTLRGDNCVQCOKRIRFGAVLRCR 349
QY 318 DCRVVHPECDRCPLFCIPPLTIGTP-VKIGEGMLADFVSQTPMIPSVIHHVCNEIEQR 376
Db 350 DCPVRCHIDCRYLLTYSVCVQV-TGTPYTKTWTGVTDFAPSIAPMIPALIVHCNEIEAR 408
QY 377 GLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICSLKDFLNLKEPLLT 436
Db 409 GLTEVGLYRLSSSREYKALKEQFLRGKATPHLGN-TDIVVLCCKVDFLRSLEPLT 467
QY 437 RLNRAPFMAEABITDSDNSIAAMYQAVGELPOANRDTTLAFMIHLQVVAQSPHTMDVANL 496
Db 468 SOWKDFANAVQNPDTKTAQDMLVKSVKQLPOANRDTTLAFILHFORIAQCPVPLMIDNI 527

```


; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

; FILE REFERENCE: 790CIP3/US

; CURRENT APPLICATION NUMBER: US/10/450,763

; CURRENT FILING DATE: 2003-06-11

; PRIOR FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: PCT/US01/08631

; PRIOR FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/540,217

; PRIOR FILING DATE: 2000-03-31

; PRIOR APPLICATION NUMBER: 09/649,167

; PRIOR FILING DATE: 2000-08-23

; NUMBER OF SEQ ID NOS: 60736

; SOFTWARE: Custom

; SEQ ID NO 50263

; LENGTH: 1086

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: DOMAIN

; LOCATION: (354)..(379)

; OTHER INFORMATION: 7 kw REVERSE TRANSCRIPTASE RNA POLYMERASE domain identified

; OTHER INFORMATION: by eMATRIX, accession number DM00895E, p-value=3.667e-11, raw score

; OTHER INFORMATION: of 15.72

; FEATURE:

; NAME/KEY: DOMAIN

; LOCATION: (315)..(600)

; OTHER INFORMATION: Reverse transcriptase domain identified by Pfam, accession

; OTHER INFORMATION: name rvt, E-value=2.8e-64, Pfam score of 227.0

US-10-450-763-50263

Query Match 19.1%; Score 618; DB 5; Length 1086;

Best Local Similarity 46.9%; Pred. No. 2.8e-41;

Matches 153; Conservative 35; Mismatches 68; Indels 70; Gaps 11;

Qy 255 WNSDSTLNSRLQLEPRTEVTSVGTQSGMRLHDFVSKTVIKPSCVPCGKRIKFKLSL 314

Db 790 WIKD--LNVPRKTIKTLEENLGNITQDIGMG-KDFMSKT---PKAMATKTKIDKWDLIQL 843

Qy 315 KCRDCRVVSHPECDRCPLCIPTLIGTPVKIG-----EGMLADFVSQTSMPISVWH 368

Db 844 KSFFC-----TAKETIRVNQPTWEKIFATYSSD-----KGLISR 880

Qy 369 CVNBEIQ-----RGLTETGLY----RISGCDR--TVKELKEK-FLRV 403

Db 881 IYNELKQIYKKTNPIKKTNDMNRHFSKEDIYAAKKHMKKCSLPAIREMQIKTTMY 940

Qy 404 KTVPLL-----SKVDDIHAICSLDKDFLRLKEPLLTFLNRAFMFAAEITDEDN 453

Db 941 HLTPVRIAIKKSGNNSKVDDIHAICSLDKDFLRLKEPLLTFLNRAFMFAAEITDEDN 1000

Qy 454 SIAAMYQAVGELPOANRDTLAFMLHQRVAQSPHTKMDVANLAKVFGPTTIVAHAVPNPD 513

Db 1001 SISAMYQAVGELPOANRDTLFLMLHQRVAQSPHTKMDVANLAEVFGSTTIVAHAVNPPE 1060

Qy 514 PVTMSQDIKQPKVVERLLSLPLEYW 539

Db 1061 PVTMLQDIKQPKVVERLLPSLPLEYW 1086

RESULT 13

US-10-450-763-44317

; Sequence 44317, Application US/10450763

; Publication No. US20050196754A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

; FILE REFERENCE: 790CIP3/US

; CURRENT APPLICATION NUMBER: US/10/450,763

; CURRENT FILING DATE: 2003-06-11

; PRIOR APPLICATION NUMBER: PCT/US01/08631

; PRIOR FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/540,217

; PRIOR FILING DATE: 2000-03-31

; PRIOR APPLICATION NUMBER: 09/649,167

; PRIOR FILING DATE: 2000-08-23

; NUMBER OF SEQ ID NOS: 60736

; SOFTWARE: Custom

; SEQ ID NO 44317

; LENGTH: 1139

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: DOMAIN

; LOCATION: (390)..(435)

; OTHER INFORMATION: kw TRANSCRIPTASE REVERSE II ORF2 domain identified by

; OTHER INFORMATION: eMATRIX, accession number DM01354N, p-value=1.000e-40, raw score

; OTHER INFORMATION: 13.17

US-10-450-763-44317

Query Match 19.1%; Score 618; DB 5; Length 1139;

Best Local Similarity 45.0%; Pred. No. 3e-41;

Matches 158; Conservative 39; Mismatches 70; Indels 84; Gaps 14;

Qy 242 WTSRRTGTQLPWNDSST-LNSR-----QLEPRTEVTSVGTQSGMRLH-----DF 289

Db 820 WLAICRKL-KLDPFLTAYTKINSRWIKDLNIREKT---IKTLEENLGIITQDIGMGKDF 874

Qy 290 VSKTVIKPSCVPCGKRIKFKLSLKCRDCRVVSHPECDRCPLCIPTLIGTPVKIG-- 347

Db 875 MSKT---PKAMATKTKIDKWDLIQLKSFFC-----TAKETIRVNQ 913

Qy 348 -----EGMLADFVSQTSMPISVIVHCVNEIQ-----RGLTETGLY- 384

Db 914 PTEWEKIFATYSSD-----KGLISRIYNELKQIYKKTNPIKKTNDMNRHFSKEDIYA 968

Qy 385 ---RISGCDR--TVKELKEK-FLRVKTVPLL-----SKVDDIHAICSLDKDFLRL 428

Db 969 AKHMKKCSLPAIREMQIKTTMYRIHTPVRIAIKKSGNNSKVDDIHAICSLDKDFLRL 1028

Qy 429 LKSEPLLTFLNRAFMFAAEITDEDNSIAAMYQAVGELPOANRDTLAFMLHQRVAQSPH 488

Db 1029 FKEPLLTFLNKAFMFAAEITDEDNSISAMYQAVGELPOANRDTLFLMLHQRVAQSPY 1088

Qy 489 TKMDVANLAKVFGPTTIVAHAVPNPDVTMSQDIKQPKVVERLLSLPLEYW 539

Db 1089 TKMDVANLAEVFGSTTIVAHAVNPPEVTMLQDIKQPKVVERLLPSLPLEYW 1139

RESULT 14

US-09-881-736-6

; Sequence 6, Application US/09881736

; Patent No. US20020076785A1

; GENERAL INFORMATION:

; APPLICANT: Glotzer, Michael

; APPLICANT: Jantsch-Plunger, Verena

; APPLICANT: Romano, Alper

; APPLICANT: Mishima, Masanori

; APPLICANT: Kaitna, Susanne

; TITLE OF INVENTION: Cyt-4 polypeptides, DNA molecules encoding them and their use in

; FILE REFERENCE: 0652.2260001/EKS/AES

; CURRENT APPLICATION NUMBER: US/09/881,736

; CURRENT FILING DATE: 2001-06-18

; PRIOR APPLICATION NUMBER: EP 00 112 880.0

; PRIOR FILING DATE: 2000-06-19

; PRIOR APPLICATION NUMBER: EP 01 110 554.1

; PRIOR FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/241,231

; PRIOR FILING DATE: 2000-10-18

; PRIOR APPLICATION NUMBER: To be determined

; PRIOR FILING DATE: 2001-06-13

; NUMBER OF SEQ ID NOS: 6

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 681

; TYPE: PRT

; ORGANISM: Caenorhabditis elegans

```
US-09-881-736-6
Query Match      16.7%; Score 541.5; DB 3; Length 681;
Best Local Similarity 25.9%; Pred. No. 2.8e-35;
Matches 180; Conservative 109; Mismatches 285; Indels 121; Gaps 22;

QY 7 NVNRLFEQLVRRVEILSEGEVQFIQLAKDFEFPRKW-----QRTDHELKGYKDLIM 59
DB 14 NSRHIFNMILNSORPQDIKGMFHILIDIERLKLWKDSESKRLNADREAEALA 73
QY 60 KAETERSALVDKLKHARNVDVIEKRRORAEACEKLERIOILIRWLMCDTSGSLQISE 119
DB 74 KAKKULAMFIDVDKQKHRLMEENKALKJLDNVYETREKOLKAMKNGIFNS--LTK 131
QY 120 EQKSALAFNRGQSSNAGNKLSTIDESSGSLSDISFDKTDSELDWD---SSLVKTFK 176
DB 132 EDRDQFKLHE--PLVRTYSKRVQ--QRPHLMEDTQDDDDSEVDYDGTGSPFEVIH 186
QY 177 LKK-REKRSTS-----RQFVDGPPG-----PVKK 200
DB 187 LRNGREVRSSAAGNAGVGKRRSASAHAITAAANSKRSRVMTATIDEENEGGTPPKR 246
QY 201 TRSGSAVDGNSISIVAKTTVT-----VPNDGSP-----IEAVSTIETVP 240
DB 247 CRDGGSTPHQEMTTTTTTTTTIHNSRAQNDPPRVSLHRQLTRSLSCGSIPTSCDQTP 306
QY 241 YWTRSRKKTGTLPWNSDSTINSRQLEPRTEPDSVGTGQSNNGMRLHDFVSKTVIKPESC 300
DB 307 GQTTNNIGLWSSAILTKSLDITLKRGTPAWNGTTR-DIAMRPHFTIEAGIKAMKRC 365
QY 301 VPCGKRIFKGLSLKCRDRCRVSHPECDRCPLPCIP-----TLIGTPVKIGEGM 350
DB 366 DKCATALKLA-TSMKCRDCHQVHRSCCNKHLPCIPRPKTMTPKSALRGAKPGAGEFR 424
QY 351 LADPVSQTSMPISIVHVCNEIEQGLTETGLYRISGCDRTVKELKEFLRVKTVPLLS 410
DB 425 LQDCTSAKMPMPAAVTHCVVLEARGLTQEGYRVPQVQRTVNVLLDE-LRSKTVPNVG 483
QY 411 KVDDIHAICSLDKDFLRNLKEPLLTFLRNLAFMEAEABI--TDEDNSTAAQYQAVGELPQA 468
DB 484 -LHDVEVITDLKFLRDLKDLPIPTSRQELIVAAANLYSTDPDNGRLANRIVICELPQA 542
QY 469 NRDTLAFMIHLQRV-AQSPTKMDVANLAKVFGPTTIVAHAVPNPDVPMQ-----D 520
DB 543 NRDTLAYLFHWRKVIAQSSRNKMNCCEAMARWAPAVMGH-----PVKQSQAATAGRD 596
QY 521 IKRQPKVERLLSLPLEYWSQFMVVEQENIDPLHVIENSNAFSTPQTFD---IKVSLIG 576
DB 597 ATDCHRAWTALFEFDDVYWRFLGTSA-----VSMASNQIETARHQDNFALCDRSILG 649
QY 577 PVTTPEHQLLTKPSSSLSORVSRSTLTKNTPRFGS 611
DB 650 PVTT-----SPATPLARSANATRGAHLLGS 677

RESULT 15
US-11-097-143-4533
; Sequence 4533, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
;

; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4533
; LENGTH: 384
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-4533

Query Match      14.7%; Score 477; DB 6; Length 384;
Best Local Similarity 40.7%; Pred. No. 2.4e-30;
Matches 110; Conservative 44; Mismatches 102; Indels 14; Gaps 6;

QY 279 QSNGG-MRLHDFVSKT-VIKPESCVPQGRKIRKFGKLSLKRCDCRVVSHPECDRCPLPCI 336
DB 78 QSHSGLLRHNFKIKSYVYVNCVCHCKRIEFAMASLECRACPLRCHIGCCGRLTVNCI 137
QY 337 P-TLIGTPVKIGEGMLADPVSQTSMPISIVHVCNEIEQGLTETGLYRISGCDRTVKE 395
DB 138 PQPQIGTK----RGCLSDYAPRVAPMPALIVHCVTEIEARGLQOEBGLYRVSSTREKCKR 193
QY 396 LKEKEFLRVKTVPLLSKVDDIHAICSLDKDFLRNLKEPLLTFLRNLAFMEAEAITDEDNIS 455
DB 194 LRRKLIRGKSTPHLGN-KDTHTLCCCVKDFLRQLVHPLIPIYHRRDFFEEATRHEDRLAVE 252
QY 456 AAMYQAVGSLPOANRDTLAFMIHLQRVASQSPHTKMDVANLAKVFGPTTIVAHAVPNPDV 515
DB 253 MAVYLAVLEHQAHRDITLAYLMLHWKQIAESPAVMTVNNLAVIFAPTTLFG-----DLD 306
QY 516 TMSQDIKQPKVYVERLLSLPLEYWSQFMV 545
DB 307 LITLENVVTTWQVRLKVLILLMPAGFWSQFLEV 336

Search completed: August 9, 2006, 16:37:36
Job time : 187 secs
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GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: August 9, 2006, 16:34:40 ; Search time 35 Seconds
(without alignments)
1215.463 Million cell updates/sec

Title: US-09-881-736A-2

Perfect score: 3243

Sequence: 1 MDTWMLNVRNLFQVRRVE.....SKSATNLGRQGNFFASPMILK 632

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 239914 seqs, 67312017 residues

Total number of hits satisfying chosen parameters: 239914

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /EMC_Celerra_SID33/ptodata/2/pubpaa/US09_NEW_PUB.pap.*
- 2: /EMC_Celerra_SID33/ptodata/2/pubpaa/US06_NEW_PUB.pap.*
- 3: /EMC_Celerra_SID33/ptodata/2/pubpaa/US07_NEW_PUB.pap.*
- 4: /EMC_Celerra_SID33/ptodata/2/pubpaa/US08_NEW_PUB.pap.*
- 5: /EMC_Celerra_SID33/ptodata/2/pubpaa/PCT_NEW_PUB.pap.*
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- 7: /EMC_Celerra_SID33/ptodata/2/pubpaa/US11_NEW_PUB.pap.*
- 8: /EMC_Celerra_SID33/ptodata/2/pubpaa/US60_NEW_PUB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	327	10.1	1169	6	US-10-449-902-41184
2	247.5	7.6	617	7	US-11-293-697-4817
3	240	7.4	1181	6	US-10-449-902-41178
4	229.5	7.1	655	7	US-11-285-052-2
5	229.5	7.1	655	7	US-11-265-052-23
6	229.5	7.1	655	7	US-11-265-065-2
7	229.5	7.1	655	7	US-11-265-065-23
8	229	7.1	1126	7	US-11-293-697-3665
9	203.5	6.3	286	7	US-11-293-697-3026
10	194	6.0	731	6	US-10-480-962-13
11	194	6.0	731	7	US-11-293-697-4126
12	176.5	5.4	727	6	US-10-480-962-14
13	171	5.3	1075	6	US-10-322-836-48
14	156	4.8	376	7	US-11-056-355B-49975
15	156	4.8	376	7	US-11-056-355B-50883
16	154	4.7	369	6	US-10-449-902-35324
17	154	4.7	369	6	US-10-449-902-46157
18	147	4.5	919	7	US-11-251-465-31
19	144.5	4.5	369	7	US-11-056-355B-69312
20	140.5	4.3	369	6	US-10-953-349-15260
21	140.5	4.3	369	6	US-10-953-349-15260
22	128.5	4.0	667	6	US-10-471-571A-1414
23	128	3.9	371	7	US-11-056-355B-8588
24	127.5	3.9	1354	7	US-11-270-653-1
25	127	3.9	1205	7	US-11-293-697-2967

ALIGNMENTS

RESULT 1

US-10-449-902-41184
; Sequence 41184, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; PRIOR FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41184
; LENGTH: 1169
; TYPE: PRT
; ORGANISM: Oryza sativa
; US-10-449-902-41184

Query Match 10.1%; Score 327; DB 6; Length 1169;
Best Local Similarity 23.7%; Pred. No. 2.6e-13;
Matches 137; Conservative 89; Mismatches 239; Indels 114; Gaps 21;
Qy 9 RNLFQVRRVEILSEGVQFQLAKDFDKKKQWTDHELGKY---KDLMKKAETER 65
Db 608 RLAEQALKATANSEKROQE--QLERSQDVKASLKGMRDLAKLTVERDLVAEVAEL 665
Qy 66 SALD-----VKLKHARNQVDV-----EIKRQRAEADCEKLERQIQ 101
Db 666 MALQDGAAGPSSVLSPPNMASTSTSDAVITONLATRLSVKNRYRKEID-----ELT 719
Qy 102 LIREMLCMTSGSIQLSEOKSALAFINRGOPSSNAGNKRISTIDESGILSDISPKT 161
Db 720 MERDSL-----IEIEELKQSKELFEAAQ---SLNAKNEELNIVLQLNKLELAQSR 771
Qy 162 DE-----SLDWDSSLVK-----TFKLKREKRRTSRQ---FVDPGPPGVKKTSGS 206
Db 772 DQLPPLPTPRDLASATKSSGGFSGSRHKLKHTAHNASISSDAPPSAGYDVSVDT 831
Qy 207 AVDQGNESIVAKTIVTPNDGGPIEAVSTIETVYVTRSRRTGTGTLPWNDSSTLN---- 262
Db 832 AVQQ-----VIQP---GKIEPAPV-----KPKFMWPKPLSETTRNNVPP 868

QY 263 SRQLERTRTDSVG--TPQSNCG-----MRLHDFVSKTVIKPESVPCGKEI 307
Db 869 AGQVPVPKGGAGLAAPASGSGTSMTRATSHDVBVREHLFPQFVNLVRLPTRCFACQKMN 928
QY 308 KFKGLSLKCRDCRWSHPECDRCPLPCTIPLTGTVPKJGEG-----MLADFVSQTS 359
Db 929 -WGQSEMRCACTQVCHSRCLQSLPVSQNPYTRPDSEVDNAGPMSFGESLVEQAAHEG 987
QY 360 PMTPIVHVCNBIERGTLTETGLYRISGCDRTVKELKEKFLRVKTVPL--LSKVDDIHA 417
Db 988 RDVPLIVEKICQAEAFGMDYEGYRKSGTSQLKVTITQLFERGNAPFDDLETDREFNDVSA 1047
QY 418 ICSLLKDFLNLKEPLITFLRLNRAFMEAAEITDEDNSI--AAMYQAVGELPOANRDTLAF 475
Db 1048 ITSVLKNYFRELPTLLTFLYDELIRLVESKQGDAGAKQEKMKELVRLPRQHFCTLOH 1107
QY 476 LMIHLQORVAQ--SPHTKMDVANLAKVGPPTIVAHAVPNPD 513
Db 1108 LVHLIRVQERSVDNRNARNLGVFGPTLMRSADFSQE 1146

RESULT 2

US-11-293-697-4817
; Sequence 4817, Application US/11293697
; Publication No. US20060105376A1

GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4817
; LENGTH: 617
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-293-697-4817

Query Match 7.6%; Score 247.5; DB 7; Length 617;

Best Local Similarity 29.4%; Pred. No. 1.8e-08;
Matches 83; Conservative 45; Mismatches 129; Indels 25; Gaps 9;

QY 361 MIPSIVHVCNBIERGTLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICS 420
Db 56 LAPMLVEQCVDFTQRGLKEEGLFRLPGQANLVKELQDAF--DCGEKPSFDSNTDVHTVAS 114
QY 421 LLKDFLNLKEPLITFLRLNRAFMEAAEII--TDEDNSIAAMYQAVGELPOANRDTLAFMI 478
Db 115 LLKXLYRELPEVIPYAKVEDFLSCAKLLSKEEAGVKELAKQVKSPLPVVNYNLLKYICR 174
QY 479 HLQRV--AQSPHTKMDVANLAKVGPPTIVAHAVPNPDVTMSQDIKEQPKVVERLLSPLLE 537
Db 175 FLDEVOISGVGNKSVQNLTATVFGPNILRPKV--EDPLT----IMEGTVVQVQQLMSVMTS 228
QY 538 YWQFMMVEQE--NIDPLHVIENSNFSTPTDPIKVSLLGPPVTPPEHQLLKTPSSSSLS- 595
Db 229 KHDCLPDKAELQSKQDQGVSNNEIQ-----KKATWGQLQNKNNNTKQSPRSQCSW 281
QY 596 ----QVRVSTLTKNTR--FGSKSKSATNLGRGNFFASPM 631
Db 282 DKSESFORSMMNGSPALSGSKTNSPKNSVHKLVDVSRSPPL 323

RESULT 3

US-10-449-902-41178
; Sequence 41178, Application US/10449902
; Publication No. US20060123505A1

GENERAL INFORMATION:

; APPLICANT: National Institute of Agrobiological Sciences.

; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.

; TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF

; FILE REFERENCE: MOA-A0205Y1-US

; CURRENT APPLICATION NUMBER: US/10/449,902

; CURRENT FILING DATE: 2003-05-29

; PRIOR APPLICATION NUMBER: JP 2002-203269

; PRIOR FILING DATE: 2002-05-30

; PRIOR APPLICATION NUMBER: JP 2002-383870

; PRIOR FILING DATE: 2002-12-11

; NUMBER OF SEQ ID NOS: 56791

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 41178

; LENGTH: 1181

; TYPE: PRT

; ORGANISM: Oryza sativa

US-10-449-902-41178

Query Match 7.4%; Score 240; DB 6; Length 1181;

Best Local Similarity 24.9%; Pred. No. 1.3e-07;
Matches 119; Conservative 58; Mismatches 173; Indels 128; Gaps 21;

QY 113 GSIQLSEEQKSALAFNLNRGQPSSSNAG-----NKRSLTIDESGILSDISFD 159
Db 612 GSNIRDAQ-----IGRQKSTASSEQDENAYRHAFLILEKREGMPDEPAHARHVLCA 665
QY 160 KTDSEL-DWDSLVKTF-----KLRKREKRTSRQF 190
Db 666 ESDEERDDVDVLVRAIAELDGVSLDDMPASPQMSQMSLSQQATTTPGREALGSNAR--F 724
QY 191 VDG--PPGPVKTRSIGSAVDQ--GNESIVAK--TTVTVPNDGGPIEAVSTIEIVPYWTRSR 246
Db 725 PDSAFSPSADKAGROFGGDAGQDSRNVAARNWSVDSTATGKPVGSTP-----GSSL 776
QY 247 RKTGTLQPNWSDSTLNSQLSPRTETDSVGTVPQSGNGMRLHDFV-----SKTV 294
Db 777 PQSASYRSFN-----EPR-----SPVSSRGADLYDAPGSPGRNEPLNRGKTS 819
QY 295 IK-PESCVPCGKRIKFG-----KLSLKCR---DCRVVSHPECDRCPLPCPTTLIG 341
Db 820 ISGPLNGAPIPAGYKFGAKDDMGDPDSKKDDKKRFWQGFAGFGSKDKHNREPR-----VFG 875
QY 342 TPV-----KIGEGMLADFVSQTSPIPSIVVHCNVEIQ--GLTETGLYRISGCDRTV 393
Db 876 VPLAESIAISSIHEGL-----ALPSSVVYRCIEYLEKKNAPFMEEGIYRLSGSSAVI 925
QY 394 KELKEKFLRVKTVPLLSKVD--DIHAICSLKDFLRLNLKEPLITFLRLNRAFMEAAEITDE 451
Db 926 KNLKDRFNMEGDVLDTENQYDDPHAIAGLLKTLFRELPTSVLTRELHMDFMRELQDR 985
QY 452 DNSIAAMYQAVGELPOANRDTLAFMIHLQORVAQ--SPHTKMDVANLAKVGPPTIVAH 508
Db 986 VERVNELGRLVSQLPLANVSLRLTCLSHLIKIEHSDVNKMTMRNVGVFSPTLAIGA 1043

RESULT 4

US-11-265-052-2

; Sequence 2, Application US/11265052

; Publication No. US20060104982A1

; GENERAL INFORMATION:

; APPLICANT: University of Texas, Board of Regents

; TITLE OF INVENTION: THERAPIES FOR SEIZURE DISORDERS USING RLIP76

; FILE REFERENCE: 124263-1038

; CURRENT APPLICATION NUMBER: US/11/265,052

; CURRENT FILING DATE: 2005-11-02

; PRIOR APPLICATION NUMBER: 10/714,506

; PRIOR FILING DATE: 2003-11-13

; PRIOR APPLICATION NUMBER: 10/713,578

; PRIOR FILING DATE: 2003-11-13

; PRIOR APPLICATION NUMBER: 60/425,917

; PRIOR FILING DATE: 2002-11-13

; PRIOR APPLICATION NUMBER: 60/425,814

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; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 655
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-265-052-2

Query Match          7.1%; Score 229.5; DB 7; Length 655;
Best Local Similarity 22.9%; Pred. No. 2.9e-07;
Matches 92; Conservative 69; Mismatches 146; Indels 95; Gaps 15

QY      118 SEEOKSALAF---LNRGQPSSNAGNKRLSTIDSGSILSDISFDKTDSELDWDSLVKT 174
       |||:||||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::
Db      29 SSEEISPTKPGLRYTGTGPSPH-----DILHEPPDVVSD---DEKDHG-----KKK 72

QY      175 PKLKRRKRSTSRQFVGDPG----PVKKTRISTGSADVQGNESIVAKTTVTVPNDGGP 229
       |||:||||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||:
Db      73 GKFKKEKTEGYAAFOEDSGDBAESPKNRKGIIHVFK-----113

QY      230 IEAVSTIETVPTWRSRRKTCITLOPWNSDSTLSNRQLPEPRTETSVGTPOSQNGMRLHDF 289
       |||:||||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||:
Db      114 -----KFPSKXKEK-----DPKIKEKPKEKHKEK-HKEEKKKKSKDL 154

QY      290 VSKTVIKPESCPCGRKIRKFOKLSLKCRCRVSHPECRDRCPIPCITPLIGTPVKIGE 349
       :||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::
Db      155 TAADVVK-----QWKEEKKKKKPKIQBP-EV-PQIDVNLKPIFGIP-----193

QY      350 MLADFVSQT-----SPMPISVVHCNEIEOGLTETGLYRISGCDDRTVKELKEFLRVKT 405
       |||:||||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||:
Db      194 -LADAVERTMWDGIRLPFAFERECIDDVEKYGMCKEGYRVSGIKSYDELKAAYDRRES 252

QY      406 VPILLSKVDDI--HAICSLDKDFLNKLKEPLLTFRLNRAFMEAAETTDEDNIGIAAMYQAVG 463
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||:
Db      253 ----TNUEDYEPNVTVASLLKOYLBDLPENLLTKELMPFEACGRTTETEKVFQRLLK 308

QY      464 ELPOANRDTTLAFLMIHLQVR-AQSPTHMKMDVANLAKVFPGTI 504
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||:
Db      309 ELPCENYLLISWLVIHVDHVIAKELETKMNIQNISIVLSPV 350


RESULT 5
US-11-265-052-23
; Sequence 23, Application US/11265052
; Publication No. US20060104982A1
; GENERAL INFORMATION:
; APPLICANT: University of Texas, Board of Regents
; TITLE OF INVENTION: THERAPIES FOR SEIZURE DISORDERS USING RLIP76
; FILE REFERENCE: 124263-1038
; CURRENT APPLICATION NUMBER: US/11/265,052
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 10/714,506
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 10/713,578
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 60/425,917
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 60/425,814
; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 655
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-265-052-23

Query Match          7.1%; Score 229.5; DB 7; Length 655;
Best Local Similarity 22.9%; Pred. No. 2.9e-07;
Matches 92; Conservative 69; Mismatches 146; Indels 95; Gaps 15

QY      118 SEEOKSALAF---LNRGQPSSNAGNKRLSTIDSGSILSDISFODKTDSELDWDSLVKT 174
```

QY 350 MLADFSVQOT----SPMIPSIHVHCVNEIEQRIQGLTETGLYRISGCDRTVKELKEKFLRVKT 405
Db 194 -LADAVERTWMDYDGLRLPAVFRICIDYVEKYGMKCEGIYRVSGIKSVKDELKAAAYDREES 252
QY 406 VPLLSKVDDI--HAICSLKDFLRLNKEPLLTFLRLNRAFWMAAEITDEDNSIAAMYQAVG 463
Db 253 ----TNLEDYEPNTVASLLKQYLRDLDPENLLTKELMPREFEACGRTTETEKVQEFORLLK 308
QY 464 ELPOANDTLAFIMHLQRY-AQSPHTKMDVANLAKVFGPTI 504
Db 309 ELPECNVLLISWLVHMDHVIKAELETKNQIQNISIVLSPTV 350

RESULT 7
US-11-265-065-23
; Sequence 23, Application US/11265065
; Publication No. US20060104983A1
; GENERAL INFORMATION:
; APPLICANT: University of Texas, Board of Regents
; TITLE OF INVENTION: THERAPIES FOR THE REGULATION OF INSULIN AND GLUCOSE USING RLIP76
; FILE REFERENCE: 124263-1039
; CURRENT APPLICATION NUMBER: US/11/265,065
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 10/714,506
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 10/713,578
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 60/425,917
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 60/425,814
; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 655
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-265-065-23

Query Match 7.1%; Score 229.5; DB 7; Length 655;
Best Local Similarity 22.9%; Pred. No. 2.9e-07;
Matches 92; Conservative 69; Mismatches 146; Indels 95; Gaps 15;

QY 118 SEQKSGALAP---LNRQPSSSNAGNKRKLTIDSGSILSDISFDTKYDSDSLWDSSLVKT 174
Db 29 SSEEISPTKPPGLYRTGEPSPH-----DILHEPPDVVSD---DEKDHG-----KKK 72
QY 175 FKLKREKRSTSRQFVDGPPG-----PVKKTBSIGSAVDQGNESIVAKTIVTVFNDGGP 229
Db 73 GKFKKKEKRTGEGYAAFQEDSSGDEAESPSKMKRSKGIHVPK-----113
QY 230 IEAVSTIETVPYTRSRRTGTTLQPNWSDSTLNSROLEPRTESTDVSGTTPQSNNGMRLHDF 289
Db 114 -----KPSFSKKEK-----DKXIKEKPEEKHKEK-HKEKHKEKSKDL 154
QY 290 VSKTVTKPESVCPGKRIKFGKLSLRCRDRVVSHPECDRCPLCPIPLTIGTPVKIGSG 349
Db 155 TAADVVK-----QWKEKKKKKKKPIQEPV-PQIDVPLNKPFGIP-----193
QY 350 MLADFSVQOT----SPMIPSIHVHCVNEIEQRIQGLTETGLYRISGCDRTVKELKEKFLRVKT 405
Db 194 -LADAVERTWMDYDGLRLPAVFRICIDYVEKYGMKCEGIYRVSGIKSVKDELKAAAYDREES 252
QY 406 VPLLSKVDDI--HAICSLKDFLRLNKEPLLTFLRLNRAFWMAAEITDEDNSIAAMYQAVG 463
Db 253 ----TNLEDYEPNTVASLLKQYLRDLDPENLLTKELMPREFEACGRTTETEKVQEFORLLK 308
QY 464 ELPOANDTLAFIMHLQRY-AQSPHTKMDVANLAKVFGPTI 504
Db 309 ELPECNVLLISWLVHMDHVIKAELETKNQIQNISIVLSPTV 350

RESULT 8

US-11-293-697-3665
; Sequence 3665, Application US/11293697
; Publication No. US20060105376A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3665
; LENGTH: 1126
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-293-697-3665

Query Match 7.1%; Score 229; DB 7; Length 1126;
Best Local Similarity 27.6%; Pred. No. 6.5e-07;
Matches 80; Conservative 54; Mismatches 130; Indels 26; Gaps 10;

QY 351 LADFVSQTSMPISIVHCVNEIEQRIQGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLS 410
Db 317 LGEHLSNSGQDVPQVLRCCSEFIEAHGVVD-GIYRLSGVSSNIQRLRHEF-DSERIPELS 374
QY 411 K---VDDIHAICSLKDFLRLNKEPLLTFLRLNRAFWMAAEITDEDNSIAAMYQAVGELPQ 467
Db 375 GPAPLQDIHSVSSCLKLYFRELPNLLTVQLYGFSEAMSVPGEERLVRVHDVIOQLPP 434
QY 468 ANRDTLAFIMHLQRYAQ-SPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMS-----QDI 521
Db 435 PHRTLEYLLRLHARMAHRSANTSMAHARNLAIVWAPNLLRSM--ELESVGMGGAAPREV 492
QY 522 KROPKVERLLS-LPLEYWSQFMVYEQENIDP---LHVINSNAFSTPOT-----PDIK 571
Db 493 RVQSVVVEFLTHVDVLFSDTP---TSAGLDAGCLLPKPKSLAGSCDSTLLTLEEAQ 549
QY 572 VSLLGVTTPHEQLLKTTPSSSLSORVSRSTLTPTKNTPRFGSKSKSATNLGR 621
Db 550 ARTQGRLGTTPTTEPTTPKAPASPAERKKGEBKQKPGSSWKTPFALGR 599

RESULT 9

US-11-293-697-3026
; Sequence 3026, Application US/11293697
; Publication No. US20060105376A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3026
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-293-697-3026

Query Match 6.3%; Score 203.5; DB 7; Length 286;
Best Local Similarity 26.4%; Pred. No. 4.6e-06;
Matches 73; Conservative 46; Mismatches 84; Indels 73; Gaps 10;

QY 414 DIHAICSLKDFLRLNKEPLLTFLRLNRAFWMAAEITDEDNSIAAMYQAVGELPQANRDTL 473
Db 18 EIKTTITSALKTYLRMLPGFLMMYQFQRSFIKAAKLENGESRVSEIHSVLHRLPEKNRML 77

Qy 474 AFLMIHLQVQAQS-PHTKMDVANLAKVFGPTIVAHVNPDPVTMSODIKRQKVVVERLL 532
Db 78 QLLANHLANVANHHKQNLMTVANLGVFGPTLLR---PQETVAAIINDIKFQNVIEILI 134
Qy 533 ---SLPLEYVQPMVQEENID-----PL---HVIENSNAFSTPQTPD 569
Db 135 ENHEKIFNTVDMPLTN-AQLHLRKKSSSKPPSCSERPLTLPHTVQSTE--KQBORNS 191
Qy 570 IKVSLGPTVTPPEHQLLKTSSSLSQVRST-----LTKN 605
Db 192 IINSLSVSNPNISLN--SSSSLOPNMNSDDPDLAUVKPTRNSLPNPSPTSPSPS 249
Qy 606 TPRFGSKSK-----SATNLGRQGN 624
Db 250 WPMFSAPSSPMTSTSSDLSLRITWSSNRGPQON 285

RESULT 10
US-10-480-962-13
; Sequence 13, Application US/10480962
; Publication No. US20060115813A1
; GENERAL INFORMATION:
; APPLICANT: YANG, Junming; EMERLING, Brooke M.;
; APPLICANT: TANG, Y. Tom; BAUGHN, Mariah R.;
; APPLICANT: LEE, Ernestine A.; RAMKUMAR, Jayalaxmi;
; APPLICANT: YUE, Henry; GRIFFIN, Jennifer A.;
; APPLICANT: CHAWLA, Narinder K.; TRAN, Bao
; APPLICANT: NGUYEN, Dannel B.; KHAN, Farrah A.;
; APPLICANT: GANDHI, Ameena R.; HAFALIA, April J.A.;
; APPLICANT: SWARNAKER, Anita; GURURAJAN, Rajagopal;
; APPLICANT: POLICKY, Jennifer L.; YAO, Monique G.;
; APPLICANT: WARREN, Bridget A.; GIRTZEN, Kimberly J.;
; APPLICANT: ELIOTT, Vicki S.; LEE, Soo Yeun;
; APPLICANT: SANJANWALA, Bharati; HONCHELL, Cynthia D.;
; APPLICANT: FORTSYTHE, Ian J.; GORVAD, Ann E.;
; APPLICANT: RICHARDSON, Thomas W.; LEE, Sally;
; APPLICANT: BARROSO, Ines
; TITLE OF INVENTION: INTRACELLULAR SIGNALING MOLECULES
; FILE REFERENCE: PP-1002 USN
; CURRENT APPLICATION NUMBER: US/10/480,962
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/US02/17955
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/297,010
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/298,706
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/299,998
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/300,377
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/301,871
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/303,349
; PRIOR FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: US 60/303,403
; PRIOR FILING DATE: 2001-07-06
; PRIOR APPLICATION NUMBER: US 60/351,927
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PERL Program
; SEQ ID NO 13
; LENGTH: 731
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID NO: 2655990CD1
US-10-480-962-13

Query Match 6.0%; Score 194; DB 6; Length 731;
Best Local Similarity 22.1%; Pred. No. 7e-05;
Matches 97; Conservative 78; Mismatches 154; Indels 110; Gaps 19;

Qy 256 NSDSTLNSROLEPRTETDTSVGTQSGNGMRLHDFVSKTVIKPESC--VPCGKRIKFGKLS 313
Db 8 NASKTLNANNMETLIEC-----QSEGDIKEHPLLASCESDSCQLEIVKRRKK----- 56
Qy 314 LKCRDCRVVSHPCRDR-CPLPCIPITLIGTPVKIGMGLAD-----FVSQTSMPISIVVH 368
Db 57 -----VLSWPFIMRLSPASDFSGALETDLK---ASLFDQQLSLICGSDSLPRIQD 106
Qy 369 CVNIEIQRGLTETGLYRISGCDRTVRELKEKF-----LRVKTVPLLSKVDDIHAICSLLK 423
Db 107 ILTILCLKGPSTEGIFRRAANEKARKEELNSGDAVDLERLP-----VHLLAVVFK 159
Qy 424 DFLRNKKEPLLTFRLNRAFMEAAIITDEDSIAAMYQAVGELPOANDRTLAFLMIHLQV 483
Db 160 DFLRSIPRKLSSDLFEWMGALEMDDEEDRIEALKQVADKLPRLNLLKHLVYVHLHI 219
Qy 484 AQ-SPHYKMDVANLAKVFGPTIVAHVNPDPVTM--SQDIKQPK-VVERLISLPLEYW 539
Db 220 SKNSEVNRMDSSNLAICIGENML--TLENDQSLSFQAOKDLNNKVKTLVFEFLDNCFEIF 277
Qy 540 SQFMV-----EQENIDPLHVIENSNAFSTPQTPDIKVSLLPVTTPEHQ----- 584
Db 278 GENIPVHSSITSDSLEHTDSSDVSTLONDSAYDS--NDPVENSSSSGSSPSRQPOVPM 336
Qy 585 -----LTKT-----PSSS--LSQRV-RST 601
Db 337 ATAAGLDSAGPODAREVSPPIVSTVARLKSSLAQDRRYSESPMSSQCSLESRTVNTQ 396
Qy 602 LTKN-----TPRFGSKSKS 615
Db 397 LTKSEGDFFPVPRVGRLES 415
RESULT 11
US-11-293-697-4126
; Sequence 4126, Application US/11293697
; Publication No. US20060105376A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cdna
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4126
; LENGTH: 731
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-293-697-4126
Query Match 6.0%; Score 194; DB 7; Length 731;
Best Local Similarity 22.1%; Pred. No. 7e-05;
Matches 97; Conservative 78; Mismatches 154; Indels 110; Gaps 19;
Qy 256 NSDSTLNSROLEPRTETDTSVGTQSGNGMRLHDFVSKTVIKPESC--VPCGKRIKFGKLS 313
Db 8 NASKTLNANNMETLIEC-----QSEGDIKEHPLLASCESDSCQLEIVKRRKK----- 56
Qy 314 LKCRDCRVVSHPCRDR-CPLPCIPITLIGTPVKIGMGLAD-----FVSQTSMPISIVVH 368
Db 57 -----VLSWPFIMRLSPASDFSGALETDLK---ASLFDQQLSLICGSDSLPRIQD 106
Qy 369 CVNIEIQRGLTETGLYRISGCDRTVRELKEKF-----LRVKTVPLLSKVDDIHAICSLLK 423
Db 107 ILTILCLKGPSTEGIFRRAANEKARKEELNSGDAVDLERLP-----VHLLAVVFK 159
Qy 424 DFLRNKKEPLLTFRLNRAFMEAAIITDEDSIAAMYQAVGELPOANDRTLAFLMIHLQV 483
Db 160 DFLRSIPRKLSSDLFEWMGALEMDDEEDRIEALKQVADKLPRLNLLKHLVYVHLHI 219

QY 484 AQ-SPTKMDVANLAKVFGTIVAHVNPDPVTM--SODIKRQPK-VVERLLSLPLEVW 539
 Db 220 SKNEVNRMDSSNLAICIGPNML--TLENDQSLFEAQDLNKKVKTLLVEFLIDNCFEIF 277
 QY 540 SQPMV-----EQENIDPLHVIENSNAFSTPTQTDIKVSLGLGPTVTPHQ----- 584
 Db 278 GENIPVHSSITSDSLEHTDSSDVSTLQNDAYS--NDPDESNSSSGSSPSRQPPQVPM 336
 QY 585 -----LLKT-----PSSSS-LSQRV-RST 601
 Db 337 ATAAGLSAGPODAREVSPVSTVARLKSSLAQPDREYSEPSMSSQECLESRTVNOT 396
 QY 602 LTKN-----TPRFGSKSKS 615
 Db 397 LTKSEGDFFVPRVGRSRLS 415

RESULT 12

US-10-480-962-14
 ; Sequence 14, Application US/10480962
 ; Publication No. US20060115813A1
 ; GENERAL INFORMATION:
 ; APPLICANT: YANG, Junming; EMERLING, Brooke M.;
 ; APPLICANT: TANG, Y. Ton; BAUGHN, Mariah R.;
 ; APPLICANT: LEE, Ernestine A.; RAMKUMAR, Jyalaxmi;
 ; APPLICANT: YUE, Henry; GRIFFIN, Jennifer A.;
 ; APPLICANT: CHAWLA, Narinder K.; TRAN, Bao
 ; APPLICANT: NGUYEN, Danniell B.; KHAN, Farrah A.;
 ; APPLICANT: GANDHI, Ameena R.; HAFALIA, April J.A.;
 ; APPLICANT: SWARNAKER, Anita; GURURAJAN, Rajagopal;
 ; APPLICANT: POLICKY, Jennifer L.; YAO, Monique G.;
 ; APPLICANT: WARREN, Bridget A.; GIETZEN, Kimberly J.;
 ; APPLICANT: ELLIOTT, Vicki S.; LEE, Soo Yeun;
 ; APPLICANT: SANJANWALA, Bharati; HONCHELL, Cynthia D.;
 ; APPLICANT: FORSYTHE, Ian J.; GORVAD, Ann E.;
 ; APPLICANT: RICHARDSON, Thomas W.; LEE, Sally;
 ; APPLICANT: BARROSO, Ines
 ; TITLE OF INVENTION: INTRACELLULAR SIGNALING MOLECULES
 ; FILE REFERENCE: PF-1002 USN
 ; CURRENT APPLICATION NUMBER: US/10/480,962
 ; CURRENT FILING DATE: 2003-12-04
 ; PRIOR APPLICATION NUMBER: PCT/US02/17955
 ; PRIOR FILING DATE: 2002-06-06
 ; PRIOR APPLICATION NUMBER: US 60/297,010
 ; PRIOR FILING DATE: 2001-06-08
 ; PRIOR APPLICATION NUMBER: US 60/298,706
 ; PRIOR FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: US 60/299,998
 ; PRIOR FILING DATE: 2001-06-20
 ; PRIOR APPLICATION NUMBER: US 60/300,377
 ; PRIOR FILING DATE: 2001-06-21
 ; PRIOR APPLICATION NUMBER: US 60/301,871
 ; PRIOR FILING DATE: 2001-06-29
 ; PRIOR APPLICATION NUMBER: US 60/303,349
 ; PRIOR FILING DATE: 2001-07-05
 ; PRIOR APPLICATION NUMBER: US 60/303,403
 ; PRIOR FILING DATE: 2001-07-06
 ; PRIOR APPLICATION NUMBER: US 60/351,927
 ; PRIOR FILING DATE: 2002-01-25
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 14
 ; LENGTH: 727
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No: 71768694CD1
 US-10-480-962-14

Query Match 5.4%; Score 176.5; DB 6; Length 727;
 Best Local Similarity 30.0%; Pred. No. 0.00098;

Matches 54; Conservative 29; Mismatches 74; Indels 23; Gaps 4;
 QY 347 GEGMLADPVSOTSM-----IPSIIVHCVCNEIEQRLTETGLYRI 386
 Db 81 GEGRL-DFTAMNAAIGGAAGGGTGLQEQQMSRGDIPIIVDACISFVTHGLRLEGVYRK 139
 QY 387 SGCDRTVKELKEKELR-VKTVPLLSKVDDIIHAICSLKDLFLNLKEPLLTPRLNAPMEA 445
 Db 140 GGARARSURLAEPRRARSVKLRPGEHFVEDVDTTLKRFRELDPPVTSARLLPRWREA 199
 QY 446 AEITDEONSIAMTYQAVGELPQANRDTLAFMIHLQORVAQ-SPHTKMDVANLAKVFGPTI 504
 Db 200 AELPKQNRLEKXYKDVIGCLPRVNRRTLATLIGHLYRVOKCAALNQMCNTRNALLPAPSV 259

RESULT 13

US-10-322-836-48
 ; Sequence 48, Application US/10322836
 ; Publication No. US20060090212A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Turner, Alexander C., Jr.
 ; APPLICANT: Zambrowicz, Brian
 ; APPLICANT: Nehls, Michael
 ; APPLICANT: Freidrich, Glenn A.
 ; APPLICANT: Sands, Arthur T.
 ; TITLE OF INVENTION: NOVEL HUMAN GENES AND PROTEINS
 ; TITLE OF INVENTION: ENCODED THEREBY
 ; FILE REFERENCE: 8535-0037-999
 ; CURRENT APPLICATION NUMBER: US/10/322,836
 ; CURRENT FILING DATE: 2002-12-18
 ; PRIOR APPLICATION NUMBER: US/09/579,114
 ; PRIOR FILING DATE: 2000-05-25
 ; NUMBER OF SEQ ID NOS: 50
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 48
 ; LENGTH: 1075
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 ; FEATURE:
 ; NAME/KEY: SITE
 ; LOCATION: (130)...(130)
 ; OTHER INFORMATION: Xaa = Gln or STOP
 ; FEATURE:
 ; NAME/KEY: SITE
 ; LOCATION: (179)...(179)
 ; OTHER INFORMATION: Xaa = Ser or Gly
 US-10-322-836-48

Query Match 5.3%; Score 171; DB 6; Length 1075;

Best Local Similarity 24.1%; Pred. No. 0.0038;
 Matches 63; Conservative 47; Mismatches 123; Indels 28; Gaps 9;

QY 362 IPSIVVHCVCNEIEQRLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVD--DIHAIC 419
 Db 495 IPLVVEVCIRYINLYGLQQQGI FRVPGSQVEVDINKNSFERGED-PLVDDQNERDINSA 553
 QY 420 SLLKDFLNLKEPLLTPRLNAPMEAIEITDEDSIAAMYQAVGELPQANRDTLAFMIH 479
 Db 554 GVLKLYFRGLENPLFPKRFQDLISTIKLENPAERVHQIQIILVTLPRVVIWVRYLFAF 613
 QY 480 LORVAQ-SPHTKMDVANLAKVFGPTIVAHVNPDPVTMSQDIKQPKVW----ERLLSL 534
 Db 614 LNHLSQYSDENNDMPYNLAICFGPTLM--HIPDQDPVSCQAHINEVITIIHHEAIFPS 672
 QY 535 PLE-----YWSQFMVVEQENIDPLH-----VIENSNAFSTPTQTDIKVSLGPVT---- 579
 Db 673 PRELEGPVVEKCMAGGEYCDSPHSEPCGAIDEVDHNG-TEPHTSDERVEQIEAIAKFDY 731
 QY 580 ---TPEHQLLTKTPSSSSLSQR 597
 Db 732 MGRSPRELSFKKGASLLLYHR 752

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